THE BUILDER

INCORPORATING

"ARCHITECTURE" AND "THE BRITISH ARCHITECT"

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A SURREY BUS SHELTER IN TIMBER.

MEETINGS

Thursday, August 26.
London Society.—Visit to Modern Churches in the Diocese of London. The coach will leave Lancaster House at 2 p.m. prompt, visiting the John Keble Church, Mill Hill, St. Mary the Virgin, Kenton, St. Alban's, North Harrow, St. Paul's, Ruislip Manor.

Monday, August 30.
London Society.—Visit to Old Walthamstow, including the Church, Grammar School and 16th century Almshouses. Meet at the Parish Church of St. Mary the Virgin. 3 p.m.

Monday-Friday, August 30-September 3.
Sanitary Inspectors' Association. Jubilee Conference. At Brighton. Monday: Meeting of the Defence League, 10 a.m.; Meeting of the Mutual Provident Society, 11.30 a.m.; Annual General Meeting, 4 p.m.; Reception, 7.30 p.m. Tuesday: Official Welcome of Members and Delegates by the Mayor, Presidential Address by Sir Leonard Hill, and Official Photograph, 10 a.m.; Discussion on "Public Health Act," 2.30 p.m.; Conference Dinner, the Grand Hotel, 7 p.m. Wednesday: Discussions on "Factories Legislation" and "Public Cleansing, with special reference to the Salvage of Waste Products," 10 a.m. Thursday: Discussions on "Meat Inspection with special reference to Memo. 62 (Foods)," and "Milk Supply from the Aspect of the Consumer," 10 a.m.; Discussion on "Housing" (*a*) Legal Aspect and (*b*) Social Aspect, 2.30 p.m. Friday: Discussion on "Grit Emission" and Lecture on "Air Raids Precautions and the Public Health Services," 10 a.m.

Friday-Monday, September 10-13.
Institution of Municipal and County Engineers. Southern District Meeting. At Jersey.

Saturday-Saturday, September 11-18.
Architectural Association. Annual Excursion, to Paris.

Sunday-Wednesday, September 26-29.
British Commercial Gas Association. Annual Conference. At Manchester. Sunday: Evening, programme of gas publicity films; Monday: Tour of Blackpool or the Lake District; Evening, reception; Tuesday: Morning, business session, followed by luncheon and afternoon session, which includes a visit to Wythenshawe; Evening, dinner; Wednesday: Business session, followed by luncheon; Afternoon, Ship Canal tour or visit to Trafford Park.

Thursday-Saturday, October 7-9.
National "Safety First" Association. Annual Congress. In London.

Wednesday-Friday, October 13-15
The Institution of Mechanical Engineers. General discussion on Lubrication and Lubricants.

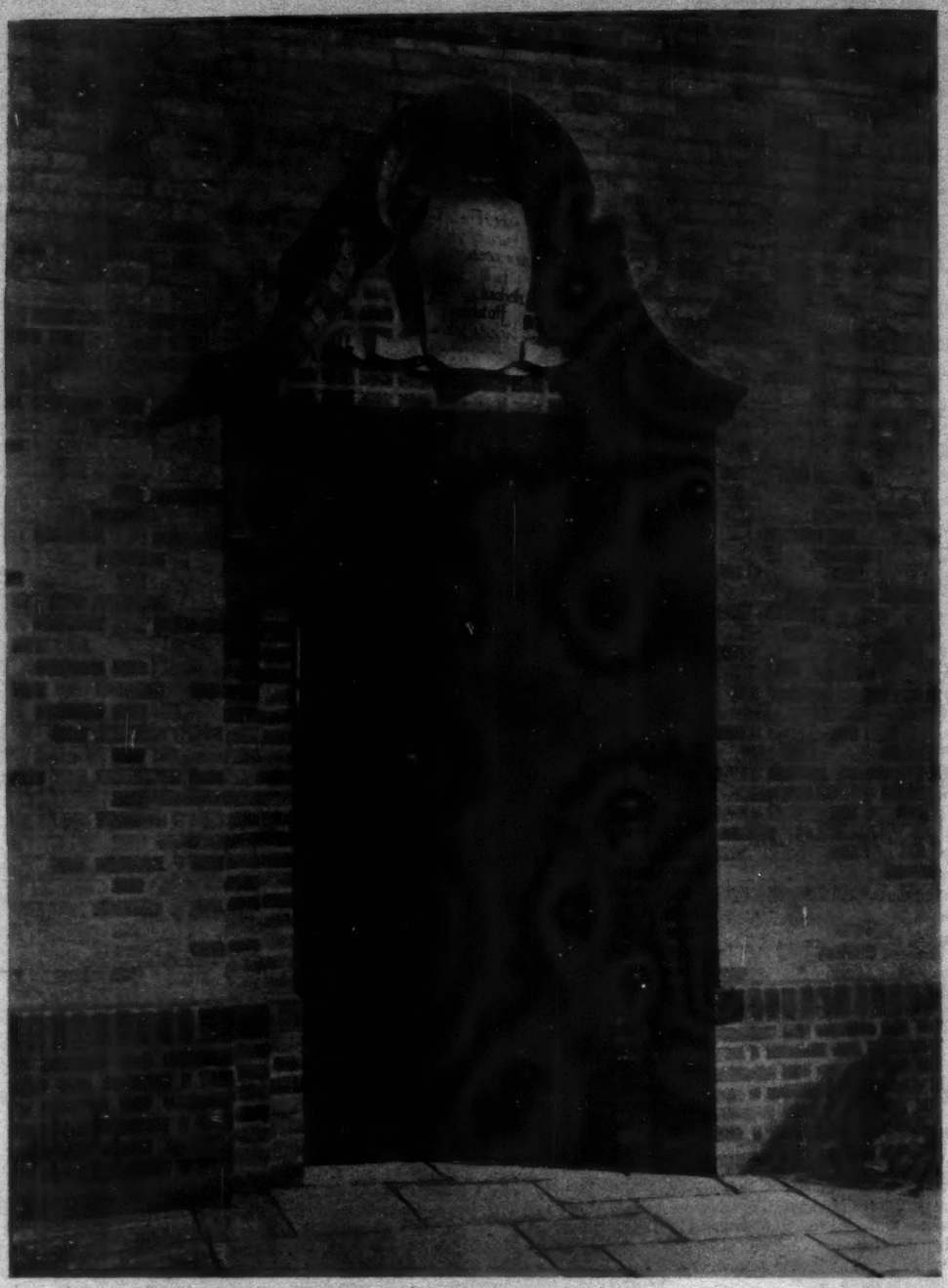
Thursday-Saturday, October 14-16.
Institute of Housing Administration. 5th Annual Conference. At Carlisle.

Thursday-Sunday, October 14-17.
Conference on the Preservation of the Countryside. 10th National Conference, Leamington.

Wednesday, November 10.
Builders' Benevolent Institution. Annual Dinner. The Connaught Rooms, W.C.2.

Monday-Saturday, November 15-20.
Public Works, Roads and Transport Congress and Exhibition. Agricultural Hall, Islington, N.1.

Monday, November 29.
National Federation of Specialists and Sub-Contractors. Annual Banquet.



ALMSHOUSES AT GEDLING, NOTTS.

These almshouses at Gedling, Notts.—Miss M. E. Hardstaff's Charity—have been designed by Major T. Cecil Howitt, F.R.I.B.A., and have gained for him the R.I.B.A. Architecture Bronze Medal for the Nottingham, Derby and Lincoln Architectural Society. The photograph shown above is a detail of the entrance to one of the houses. Other views and plans are on pages 317—320.

TOPICS OF THE DAY

PUBLIC BUILDINGS AND PRIVATE ARCHITECTS

THE volume of constructional work now devolving upon public and local authorities, which has for many years shown a tendency to increase, has recently compelled certain authorities to take stock of their architectural departments in the light of the additional work being thrown upon them. Their immediate problem is whether to enlarge those departments or to tide over the present pressure by engaging the services of local private architects.

Before entering into this question a matter of greater moment must be settled. This concerns the probable duration of this present spell of activity, and the wisdom of pressing on with large municipal constructional works at a time when a shortage of certain materials exists, when skilled labour in some trades is scarce, and when building prices have a mercurial tendency. This question is not merely a local matter; rather it is one of national importance.

Reference has already been made in these columns to the advisability—not in the interests of the building industry alone, but in the national interest—of preparing a "reservoir" of constructional schemes, to be put into operation so soon as the volume of defence and private building works displays a tendency to diminution. That "reservoir" of works would naturally exclude municipal construction of an urgent nature—such as slum clearance, schools, certain road and bridge works—and would comprise such works of improvement as could be deferred for a limited period without real inconvenience.

That is the real problem which Government, public and local authorities, and the building industry must face, and is one which the last—in the form of the Building Industries National Council—has well in mind. This Council is already in process, so we believe, of seeking Government support for the principle of establishing a reservoir of planned works which may be drawn upon in time of need.

THE VALUE OF THE PRIVATE PRACTITIONER

To return to the immediate needs of public and local authorities in executing their current programmes, the question not infrequently obtrudes itself of what is the best method of getting out plans—to enlarge their own architectural departments or to make use of the organisations of private architects.

The former course is, in the case of large non-recurrent works, an uneconomic one to the ratepayers, and, at the present time, is one which it is difficult to achieve in view of the shortage of good, qualified architectural and quantity surveying assistants. The uneconomic argument is one which has been employed just recently by the Notts., Derby and Lincoln Architectural Society in regard to the Nottingham Corporation's proposal to extend their Guildhall at a cost of £330,000 to plans by the Council's Engineer and Surveyor. The Society (whose views are more fully expressed on page 310) are pressing for an architectural competition for the layout of the civic centre and design of the extension on the additional ground that a scheme of such magnitude deserves "the best possible solution in the interests of Nottingham and its citizens." The Society also employ the argument (already referred to) that the present time is not opportune for such a large contract.

The alternative method of executing works of a pressing nature by engaging the services of private architects is one which commends itself to both reason and efficiency, and we are pleased to note that it is one which an increasing number of large authorities are following. Among the more recent examples which have come to our notice are the West Riding C.C.'s action in commissioning a number of well-known architects to design elementary schools in their area, and the Middlesex C.C.'s proposal to appoint an independent architect in connection with the extension of the North Middlesex County Hospital. These are only the latest of a large number of special cases, and commend themselves to us as being in the interests of the ratepayer, as conducing towards speed and efficiency (as the architects concerned are specialists in the works proposed), and last, but we do not think least, as being a fair gesture to a body of professional men who have given ample proof that they deserve well of the community of which they form a highly useful part.

TRUNK ROADS

AS a result of the Trunk Roads Act of 1936, the direct charge of 4,500 miles of trunk roads in this country passed on April 1 of this year from the County Councils to the Minister of Transport, though the work of maintaining and widening existing roads and the construction of new ones has been delegated to the Councils for at least two years. When the full implications of the Act became known, the Council for the Preservation of Rural England and the Roads Beautifying Association set up a Trunk Roads Joint Committee "to consider the best methods of treating land acquired for present or future road improvement purposes, and to submit a report, preferably illustrated and dealing with particular lengths of road by way of example." This Report* has just been issued, and it is a most valuable document, especially for those to whom the work of planning and upkeep of roads is entrusted. Following an extremely interesting historical sketch of road building, the Report deals suggestively with the whole problem of roads under three heads: 1, Traffic, Free Movement and Safety; 2, Preservation of the Amenities, Beautification; and 3, Construction.

The Report points out that during the last quarter of a century the road system of this country has been increased by slightly more than 3,000 miles, including new streets in urban areas and the new by-passes; but the total of the roads constructed for traffic purposes, as distinct from building operations, is very small. With the enormous and constantly increasing growth of motor transport, the need for more and better roads is plainly apparent, and such roads will have to be provided in the near future. That they shall do as little harm as possible to existing amenities, and be themselves so conceived as to become attractive features of the countryside through which they pass, are the principal requirements, and there can be no doubt that it is possible to satisfy both, particularly if the excellent suggestions contained in this Report are followed. How, for example, a new bridge over a stream may be designed to blend with the countryside is well shown in one of the excellent illustrations given with the Report; while a type of ancient landmark that should be carefully preserved in its integrity, by by-passing, if necessary, is well indicated in the old bridge on the Shrewsbury-Newport Trunk Road (these are reproduced on pages 310-311). We note that the Committee is emphatically in favour of roads of the parkway type, with dual or treble carriageways and ample reserve of open land on each side affording sufficient space for cycling, walking, riding, etc., well away from the main traffic streams. The Report shows an intimate knowledge of the road problem in all its phases, and we trust that its recommendations will receive the close attention that they deserve.

* Obtainable at 4, Hobart-place, S.W.1, price 1s. 6d.

NOTES AND NEWS

The Nottingham Guildhall Extension.

THE Nottingham, Derby and Lincoln Architectural Society have, at an emergency meeting, approved a strong protest against the £330,000 Nottingham Guildhall Scheme, and have forwarded it to the Town Clerk of Nottingham. The grounds of the complaint are said to be the way the scheme is being rushed through, the uneconomic increase in the City architectural staff, the need for an architectural competition open to everybody, and the unsuitability of the present time with costs rising as a result of Government contracts. The Society's Council, as one of their grounds of objection, state: Whilst not disagreeing with the necessity for these works and the co-ordination of the civic departments, the Society is strongly of opinion that a scheme of this size should be put out to open competition by all architects in order to obtain the best possible solution in the interests of Nottingham and its citizens. They further declare that it is uneconomic to increase the city architectural staff for a non-recurring job, and it is more profitable to the ratepayers that such a work should be carried out by a private firm selected by competition; and that the time, with temporary rising costs, due to the rapid placement of Government contracts, is not opportune for this contract, and is pushing up the prices which ratepayers will have to pay for their own private contracts.

The plans are being prepared by the Borough Engineer and Surveyor, and a contract has been accepted.

Epstein Statues on Rhodesia House.

PLASTER casts have been taken of 11 of the 18 statues on Rhodesia House, Strand. After a report by a London County Council surveyor, and after many experts had been consulted, it was decided that all stone which was dangerous, or might become dangerous, in the statues should be cut out. It had been found that some limbs were missing and some cracked and in danger of falling. It is understood that the casts were taken at the request of Sir Muirhead Bone, and that Mr. Epstein has expressed his approval of the proposal.

Guildford Cathedral Progress.

THE work of excavation and pile-driving on the site at Stag Hill for Guildford Cathedral is now nearing completion. Preparations are being made for the crypt, and it is expected that the work up to the ground level will be finished within the next six months. By January it is hoped to start the first part of the superstructure. This will consist of the east end of the cathedral, from the tower crossing with its shallow transepts eastwards to the altar. This section will contain 1,000 persons and will be used, while the rest of the building is being constructed, as a parish church for the surrounding population. Mr. Edward B. Maufe, F.R.I.B.A., is the architect.

The New Whitehall Building to Start Next Year.

THE work of clearing the site for the new Government building in Whitehall-gardens will be begun early next year, we learn. According to present plans, it is unlikely that the first (northern) section of the building will be completed before 1942. The whole scheme should be finished in 1947. The provisional cost of the building is set at £1,750,000. Mr. Vincent Harris, A.R.A., is the architect.

Conference on Preservation of the Countryside.

LORD CRAWFORD AND BALCARRES will preside at the tenth national conference of organisations interested in the preservation of the countryside, to be held at Leamington from October 14 to October 17, preparations for which are now practically complete. A special committee of the C.P.R.E. have decided to address a further letter to the Minister of Health asking him to define the Government's attitude to the policy outlined in the proposals of the National Parks Committee, 1931, that a national park authority should be established to select national park areas, to guide, support, and co-ordinate planning schemes in such areas, and to supervise and manage any national parks when established in co-operation with local authorities and other interests.

Housing Progress In Greater London.

THE Housing and Public Health Committee of the L.C.C. submit particulars of housing progress in Greater London up to December 31, 1936. These show that up to that date over 139,000 houses and flats had been provided since 1920 by local authorities in Greater London. During 1936 the local authorities erected more than 11,000 dwellings, an increase of about 3,500 over the figures for the previous year. The London County Council provided 7,076 of these dwellings (as compared with 4,276 in 1935) and the other local authorities 4,058 dwellings, an increase of 890. Since 1919 the number of houses built by local authorities and private enterprise has been nearly 684,000, an average of 40,230 a year, but the number provided last year was nearly double this average.

Safeguarding the Thames Valley.

A SCHEME has been formulated for preserving the stretch of the Thames between Riverwood, Marlow, and Bourne End, under which the local authorities will subscribe 65 per cent. of the cost, provided that £2,500 is raised by public subscription. If the scheme goes through, the entire riverside in Buckinghamshire will be safe from development.

Buckinghamshire County Council have approved a scheme for the provision of parkways along the new Maidenhead by-pass in Buckinghamshire by preserving 140 acres along the route of the by-pass from the London-Bath road to Taplow.

The Kemal Ataturk Memorial, Erzerum.

PRELIMINARY details were announced early this year of a proposed international competition for the Kemal Ataturk Memorial at Erzerum. We are now informed by the Turkish Ministry of Culture that only Turkish sculptors are called upon to compete for the memorial.

Replanning Greater London.

THE appointment of a Royal Commission to draw up a comprehensive scheme for the replanning of Greater London, including the central areas, is urged by Mr. H. B. Bryant in the current issue of "Development."

"The London County Council and other local authorities," Mr. Bryant continues, "are now engaged in schemes for beautifying the south side of the Thames. The improvements contemplated include the demolition of existing wharves, houses and factories, and their replacement by modern buildings of dignified design, wide boulevards and gardens. Important changes, too, are being carried out by private enterprise on the opposite side of the river. Between Blackfriars and the new Lambeth Bridge, imposing commercial buildings have risen to give a modern setting to the Embankment, while, further up, towards Chelsea, the riverside terraces, gardens and edifices of Dolphin-square will, when completed, illustrate graphically the potentialities of the Thames-side portion of Westminster. The example thus set is one which could profitably be followed in replanning Westminster as a whole. Furthermore, the project for the erection of new Government offices in Whitehall and of the national memorial to King George V pro-

By courtesy of Mr. G. H. Jack.

A NEW BRIDGE IN THE WEST COUNTRY BUILT OF LOCAL STONE.

(FROM TRUNK ROADS REPORT.) See page 309.

MR. SPENCER SILCOCK, A.R.I.B.A.

Messrs. Silcock and Thearle have won the Competition for New Offices and Workshops for Belfast City and District Water Commissioners. Their scheme is illustrated and described on pages 327—329.

MR. HERBERT THEARLE, A.R.I.B.A.

vides an unrivalled opportunity to put such a scheme into effect."

Mr. Bryant stresses the danger of London being rebuilt within the next twenty years without any coherent scheme, but by piecemeal and unrelated efforts. The present planning powers are insufficient, the planning authorities inappropriate, and their areas unrelated to the problem. The establishment of a central co-ordinating authority with wide planning powers, he urges, is therefore necessary.

Building Surveyors' Association: Quarterly General Meeting.

THE quarterly general meeting of the members of the Building Surveyors' Association will be held at the premises of the R.I.B.A., 66, Portland-place, London, W.1, on Saturday, September 11, at 2.15 p.m. Mr. George Pierce Clingan, A.M.I.Struct.E., City Building Surveyor of Liverpool, will read a paper on "The Duties of the Building Surveyor in Connection with the Public Health Act, 1936, and the Model By-laws as to Buildings, 1937."

Town-Planning At Bexhill.

BEXHILL TOWN COUNCIL has adopted a town-planning scheme for submission to the Minister of Health. The scheme, which has been prepared by Dr. Thomas Adams, includes the whole of the borough. A feature of the plans is a parkway 100-ft. wide and more than two miles long.

New Methods of Caisson Work.

A HYDROMECHANICAL method of caisson work has been developed by a young Soviet engineer named Gavrilenko and is being applied in bridge building across the Moscow River. The new system is said to be a great improvement on the old. It consists in installing powerful hydraulic pumps which wash out the ground by means of powerful jets under great pressure. Pipes from suction dredges then suck up the slush and throw it on to the river bank. This not only speeds up and facilitates the work, but reduces costs. A 600 square metre caisson can be operated by five workers per shift, instead of the 75 required under the old method of excavating by means of shovels and pneumatic hammers. The labour productivity of each worker is increased from an average of two cubic metres of ground per shift to 40 cubic metres. The new method also allows less air pressure to be used in the chamber, which improves the conditions under which the operators have to work.

A caisson which works automatically, and requires no workers and no compressed air, is being developed by Mr. Filipov, chief mechanic of building operations on one of the Moscow River bridges. All the work is controlled from a control chamber on top of the caisson. Tests of the working of this "blind caisson" have so far yielded good results, it is stated.

Timber for Structural Work.

A PLEA for the use of timber instead of steel for certain types of structural work was made recently by Mr. James Austin, vice-chairman of the Timber Development Association, in London. "There is such a shortage of steel," he said, "that they have lowered the tariffs in order to let in an increased quantity of foreign steel. I do suggest that the Government should consider how far they could recommend, or insist upon, the use of timber rather than foreign steel for certain structural work. Empire teak or Douglas fir, for example, would be of particular value.

"There is no good national or economic reason why steel should be wasted on jobs where wood has a proven usefulness. For many purposes timber could be used with greater economy, speed and safety."

Liverpool Roman Catholic Cathedral.

SPEAKING in Liverpool on the progress in the building of the Roman Catholic cathedral, the Archbishop of Liverpool said that over 7,000 tons of rock had been excavated, over 2,000,000 bricks had been laid, and over 30,000 cub. ft. of granite had been fixed. The Chapel of Relics, containing the remains of Archbishop Whiteside, would be one of the gems of the whole cathedral. In the course of a few weeks it would be possible to set to work on the difficult task of erecting the great rolling gate which was to serve as the door, and which would be one of the unique architectural features of the world.

The expenditure on the site and building up to date has been £221,075. Sir Edwin Lutyens, R.A., is the architect.

Professional Announcement.

MR. FRANK BROWN, L.R.I.B.A., of 20, Pocklingtons-walk, Leicester, has taken into partnership Mr. A. L. Sharpe, A.R.I.B.A. The practice is being carried on in the joint names of Messrs. Frank Brown and A. L. Sharp, L. and A.R.I.B.A., at Crown Buildings, 4, Loseby-lane, Leicester, to which address all communications should be forwarded. Latest trade catalogues will be acceptable.

By courtesy of Mr. G. H. Jack.

A NARROW BRIDGE ON THE SHREWSBURY—NEWPORT TRUNK ROAD.
(FROM TRUNK ROADS REPORT.) See page 309.

COMPETITION NEWS

Senior Mixed School, Keighley.

The Keighley Education Authority invite architects to submit designs in competition for the new council senior mixed school, proposed to be erected on the Guard House Site, Keighley, Yorks. Mr. Harold A. Dod, M.A., F.R.I.B.A., of Cunard-building, Liverpool, 3, is assessor, and premiums of 150 gns., 100 gns., and 50 gns. are offered.

Designs must be sent by December 22 to the Director of Education, Education Office, Town Hall-square, Keighley, Yorks, to whom any questions which competitors desire to ask must be addressed by September 4, and from whom conditions and site plan are available (deposit, £2 2s.). Following are points from the conditions:—

The sizes and particulars of accommodation are generally in accordance with the suggestions contained in the Board of Education Pamphlet, No. 107, and the Physical Training Pamphlet No. 14, and it is suggested that competitors avail themselves of the information given therein. A copy of these pamphlets may be obtained from H.M. Stationery Office. Competitors are advised to visit the site, which is somewhat exposed, the prevailing wind being south-west, and to make themselves acquainted with the locality and the use of local building materials. A preference is expressed by the promoters for the use of local stone. For the purposes of the competition it is to be assumed that a solid foundation is obtainable at a depth of 2 ft. 6 in. below the existing ground-level.

The plans are to be for a senior mixed school and are to provide accommodation for 240 girls and 240 boys, a total of 480 scholars, but the promoters may consider it necessary at the outset to limit this number to 400 and to omit two of the classrooms. These must, therefore, be so planned that their omission will not interfere with the working of the school. All other accommodation is to be on the basis of 480 scholars. Economy in planning, construction and maintenance costs are of primary importance. No restriction is placed on competitors with regard to the architectural style of the building, other than economy.

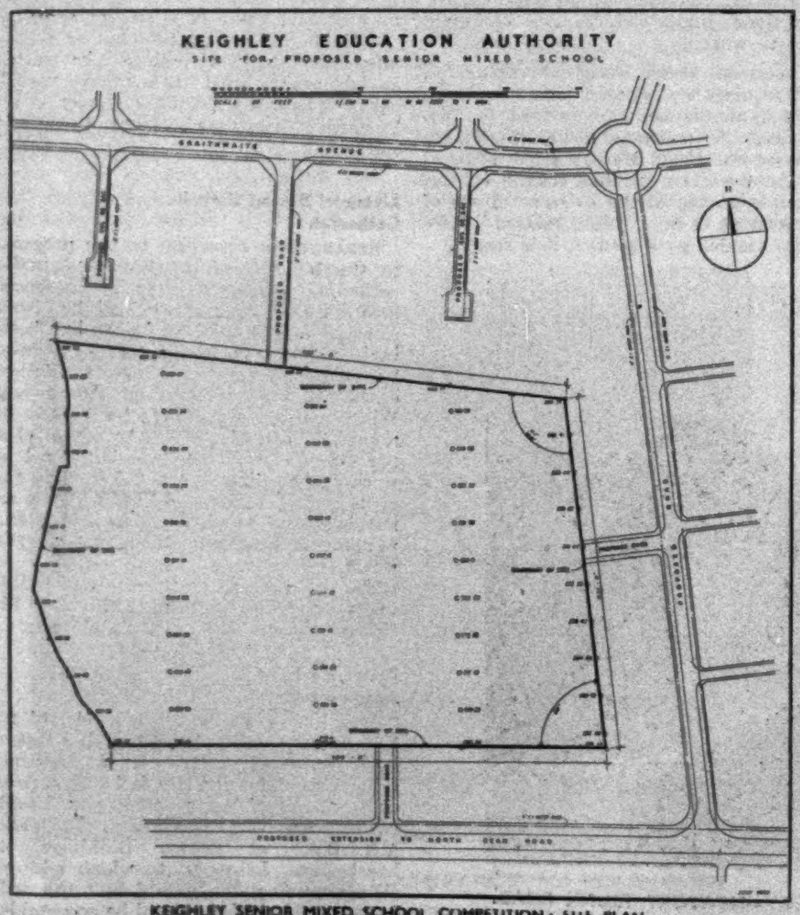
Scunthorpe Municipal Buildings and Lincoln County Council Police Buildings.

Architects of British nationality are invited to submit in open competition designs for these new buildings to be erected at Scunthorpe, Lincolnshire. The assessor is Mr. T. Cecil Howitt, F.R.I.B.A., and premiums of £500, £250 and £150 are offered. The last date for submitting designs is November 19 next, and the last date for questions, September 20. Conditions of the competition may be obtained on application to Mr. J. F. Auld, Town Clerk, Borough of Scunthorpe, Municipal Offices, 34, High-street, Scunthorpe, Lincs. Deposit, £2 2s.

New Water Office and Workshops, Belfast.

The assessor, Mr. H. Austen Hall, F.R.I.B.A., in this competition for the Belfast City and District Water Commissioners, has awarded, from the 56 designs received, the first prize (£300) to Messrs. Silcock and Thearle, AA.R.I.B.A., 66, Rodney-street, Liverpool, 1; the second prize (£200) to Messrs. E. D. Lyons, L. Israel, C. H. Elsom, AA.R.I.B.A., 3, Paul's Bakehouse Court, London, E.C.4, and the third prize (£100) to Mr. H. T. Wright, F.R.I.B.A., 50, High-street, Gosforth, Newcastle-upon-Tyne, 3.

All the designs are on exhibition in the Municipal College of Technology, Belfast, until Saturday, August 21. The winning design, assessor's and winners' reports are given in this issue.


KEIGHLEY EDUCATION AUTHORITY
SITE FOR PROPOSED SENIOR MIXED SCHOOL
GRAITHWAITE AVENUE
PROPOSED EXTENSION TO NORTH DEAN ROAD

KEIGHLEY SENIOR MIXED SCHOOL COMPETITION: SITE PLAN.

OBITUARY

The late Frank T. Verity, F.R.I.B.A.

By the death of Mr. Frank T. Verity, F.R.I.B.A., which occurred at Bournemouth on August 14, the architectural profession loses one of its most accomplished and productive members. Mr. Verity carried out a great amount of excellent work, first of all on his own account and latterly in partnership with his son-in-law, Mr. S. Beverley, F.R.I.B.A. Almost entirely urban in character, his work was also invariably urbane, having style without being merely stylistic. All his designs had a quality of refinement that was perhaps traceable to his early studies in Paris, where he came under the influence of the Beaux-Arts tradition. Many of his early works, especially his blocks of flats in the West End, were very French in feeling. Mr. Verity specialised in flats, theatres and cinemas, and many of our older readers will recall his magnificent Imperial Theatre, Westminster, designed for Mrs. Langtry, but unfortunately demolished about 1908. Another notable work of his early period was the Junior Naval and Military Club, Piccadilly, of which Mr. Goodhart-Rendel has said: "The design of this façade is quite an ordinary composition lifted into being extraordinary by the masterliness of its proportions and details. I do not think that during the 40 years of its lifetime anything has come into Piccadilly of a higher class of merit." Another building that created great interest at the time of its erection was his shops and offices in Regent-street—a building with a classical urbanity that would have been an excellent model for the rebuilding of that street, which, regrettably, was never followed.

Francis Thomas Verity was articled to his father, the late Thomas Verity, and was also a pupil of R. Phené Spiers. He studied at the Royal College of Art, South Kensington; at University College; the A.A. and the R.A. Schools; and in Paris. He gained the R.I.B.A. Tite Prize in 1889, in which year he was elected A.R.I.B.A., becoming Fellow in 1896. Mr. Verity held the appointment of Architect to the Lord Chamberlain's Department, and was Corresponding Member to the Société Archaéologique de France. In 1923, the second year of its institution, he won the R.I.B.A. London Architecture Medal with his Shepherd's Bush Pavilion, this being the first (and, so far, the only) award for a cinema theatre.

Mr. Verity's works were for the most part Metropolitan, except for a few, among which may be numbered the New Vaudeville Theatre and the Paramount Cinema, Paris; the Theatre Royal, Bath; and the Theatre Royal, Windsor. London buildings include the new façade to the Regent-street Polytechnic; grand stand, etc., at Lords; Civil Service Co-operative premises, Haymarket; annexe to French Hospital, Shaftesbury-avenue; and flats in many parts of London.

It was, however, as a designer of theatres and cinemas that Mr. Verity specialised in later years. He had had early experience, as we have already recorded, in this direction with Mrs. Langtry's Imperial Theatre, Westminster, the old Empire, in Leicester-square, and the Scala, in Charlotte-street, and he was a pioneer in the design of the cinema-de-luxe, acting as European adviser for the Paramount Company, for whom he built the Plaza, Regent-street (one of the earliest examples, but still a model of what a cinema should be), and, more recently, the Tottenham Court-road Paramount, besides a string of provincial "key" cinemas in Manchester, Newcastle, Glasgow and elsewhere. Some of these were designed in conjunction with Mr. Beverley, and the firm, more recently, have done many cinemas for the Union Cinema Company.

"REFUGIOS" OF VALENCIA

BOMB SHELTERS AND THEIR CONSTRUCTION.

By PHILIP H. SAINT.

If aerial warfare swept Europe to-day no civilian population would be better cared for than 800,000-populated Valencia, seat of the Spanish Government. Since the first air-raid on the coastal city several months back, little time has been lost in making plans for safeguarding the population by the erection of *refugios*, or bomb-shelters—42 in all—at street corners. These have all been built since February.

It was in one of the squares near the station that I came across what appeared to be a pleasant seaside bungalow, except there were no windows. Workmen were painting it blue and white; seats skirted it; flowers were growing along the walls. On the other side was R E F U G I O in 6-ft. high reinforced concrete capitals. I was looking at one of the city's latest shelters, capable of holding 1,250 people. "But why so beautiful?" I asked one of the workmen. He laughed. "We do not want our city full of eyesores when we have won the war. It will be a large shop or perhaps a boot-blacking parlour then, and it won't attract customers if it looks like a prison."

I learned that when the shelters were first opened, refugees (there are 300,000 of them in Valencia, though most of them are housed now) used to take possession of them, bringing their food and mattresses. But this is no longer possible, as heavily locked wrought-iron grille gates have now been erected, and no one can enter a *refugio*, night or day, unless an actual syren-heralded raid is beginning. In all, the shelters can hold 41,000 people, and are only for women and children on the streets or in near-by houses without bombproof cellars.

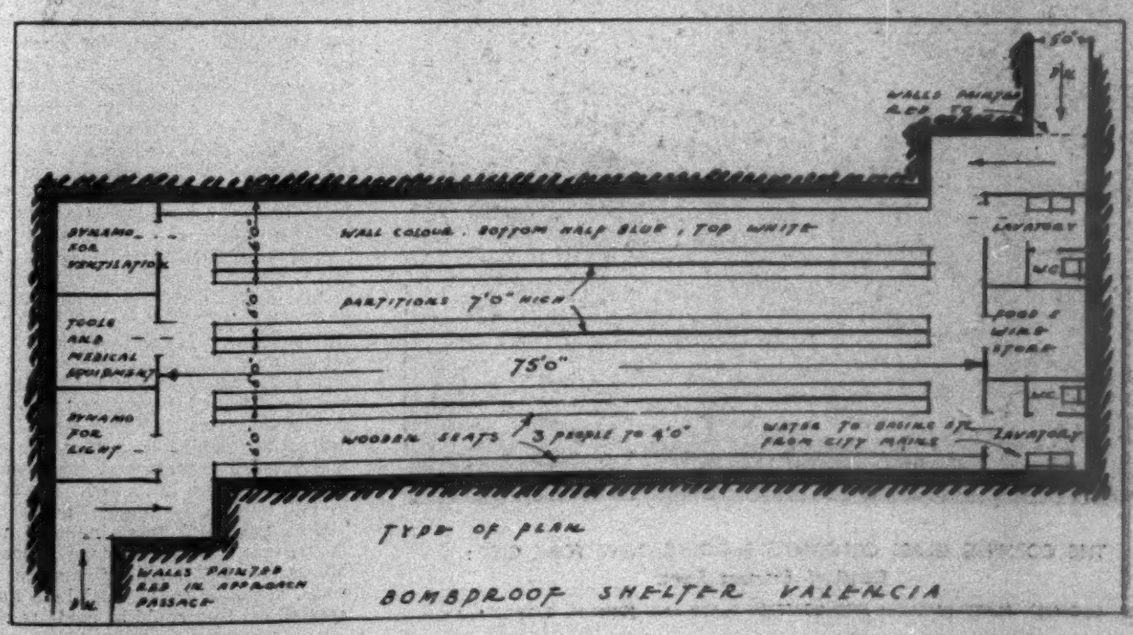
Senor Pedros, one of the city's foremost architects, showed me round one of the smaller shelters (see plan and picture) capable of holding about 350 people. They range in holding capacity from 250 to 1,250 persons. "The *refugios* were planned by the civic authorities and built by the Ministry of Works," Senor Pedros told me as I passed through one of the two entrances. The doorway was

A 1,250-CAPACITY "REFUGIO," VALENCIA.

7 ft. high by 5 ft. wide, and a moderately sloping ramp, with wooden handrails on either side, headed downwards to a depth of about 30 ft. before twisting at right-angles to the safety-room entrance. As far as the right-angle, the tunnel-topped passage was painted brilliant red, for danger; the remainder of the passage, being at safety-level, was painted bottom half blue, top half white, as was the interior safety-room. This safety area consisted of a bright and cheery 9-ft. high room, 24 ft. wide by 75 ft. long, with four 20-yd. long 7-ft. high 3-in. partitions, divided by gangways. Wooden "tramway" seats, three people to every 4-ft. of space, skirted the partitions and the longer walls. Two lavatories with basins, electric light, food, wine and medical supplies, gas-masks and tools were located at either end, where I was also shown auxiliary dynamos for the lighting and ventilation system. In addition there was hand apparatus for the ventilation system in the event of that essential dynamo being put out of action. The entrances at opposite ends, coupled with the presence of efficient digging and cutting tools, minimise the risk of being entombed by falling near-by buildings. In some of the larger shelters there are three and even four entrances.

There are two types of *refugio*, I was told, dome- and flat-topped. The dome-topped shelter is of reinforced concrete solely, while the flat-topped type, like this one, are steel-constructed, steel embedded in concrete. In addition to the steel construction, there is a layer of 3-in. thick sand, 2 in. concrete, another 3-in. layer of sand, and, finally, a 5-ft. layer of reinforced concrete—theoretically capable of withstanding a 500-kilo bomb at 2,250 ft., which in practice means that these shelters are proof against the fiercest incendiary or explosive bombs.

Next day, at the crack of dawn, I had an opportunity of watching this *refugio* in use. A syren-ushered air-raid was imminent, and I watched lots of women and children walking—not running—to the shelter. It was not a severe raid. 40 minutes later the *refugio* was emptying again: there were no signs of terror, the women all looked quite cheerful. These shelters are the only ones of their kind in Spain—there are a few in other towns, but they are of poor quality, being usually glorified cellars with poor equipment.



A GLASS-FACED BUILDING, NEW YORK

By GEORGE HERRICK

If it is appropriate for people in the glass business to live in glass houses, the Corning Glass Co. and its retail subsidiary, the Steuben Glass Co., which have moved to a new glass building at 718, Fifth-avenue, New York, are true to their beliefs. This building occupies a plot of 27 ft. on the avenue and 100 ft. on Fifty-sixth-street, and is five stories in height. The corners and ground floor are faced with Indiana limestone. The rest is an uninterrupted expanse of glass blocks.

Air-Conditioned Ventilation.

The original design of the architect specified a completely sealed-in structure, securing the available supply of daylight through its glass walls and depending for ventilation entirely on air-conditioning. It is the type of construction long advocated by Willard Carrier, the air-conditioning engineer, and a design that has been applied to a limited number of structures, largely factories, in small towns and cities of the United States. In New York, as in other large American municipalities, the building code is an obstacle to more rapid progress of architecture and construction. The code requires a minimum of window space in the walls of a building at each floor, even though the windows may never be opened. In consequence, the plans of the Corning building had to be revised, and available but unused windows, 3 ft. sq. have been as completely concealed as possible in the fourth row of the solid glass facing at each floor level.

Building Code Restrictions.

The provisions of the building code also forced the builder to instal 3 ft. of masonry between floors instead of the 18-in. floor thickness intended. This revision had its direct effect in forcing a variation in the translucence of the glass blocks used in the outer wall. Slightly more opaque glass was used at the floor levels partially to conceal the shadow of the floor thickness.

The glass blocks, 3,800 of them on the building faces, are each 1 ft. sq. and 4 in. in thickness. The blocks are set by bricklayers into large frames of steel beams, indicated by lines on the architect's drawing. Although, the coefficient of expansion for the glass blocks is placed at 0.0000018 for each degree of temperature change to which they would be likely to be subjected, each assembly of blocks is a separate unit in itself, set into the steel frame with glass fibre and mortar. The blocks are made up from two hollow squares (similar in mould to a square glass baking dish), which are fused together with glass at 3,600 deg. Fahr. The half-block on one side is fluted inside vertically and on the opposite side the fluting is horizontal. A lime Portland cement mortar is used, consisting of one part lime, one part cement and six parts sand. The exposed joint thickness of mortar is not to exceed ¼-in. By having the fluting on the inside, the exposed glass surface is perfectly smooth and easily washed by men on scaffolding lowered from the roof.

Practical Value of Building.

With a glass building of his own, the glass block maker is able to test by actual use on a large scale some of the claims made for these glass blocks in building facing and for partitions. In addition to the facing of glass, most of the interior partitioning will be installed with the same glass, but in slightly smaller blocks. The claims for glass blocks include transmission of only 40 per cent. of the radiant heat falling directly on the wall. This is urged as an advantage for keeping heat within in winter and preventing its penetration in summer. The blocks transmit 78 per cent. of the light striking their surface, but only 11.6 per cent. of the brightness. The design of the fluting on the block interiors is said to diffuse and scatter completely incoming light, preventing shadows. This, it is argued, will provide comfortable, softly lighted offices and stores, with much more total of outside light than would be possible through fully translucent windows admitting 90 per cent., including brightness. Still another claim is the soundproofing qualities of the hollow glass. Tests have indicated that a 4-in. thick hollow glass block has the soundproofing quality of an ordinary wall about 6 ft. in thickness. In addition, ceilings and partitions are soundproofed with glass fibre.

The Possibilities of Glass.

The architect of the building, Mr. Geoffrey Platt (of the firm of William and Geoffrey Platt and John M. Gates), has still another claim for glass buildings. Says Mr. Platt: "The glass construction unit opens up possibilities of an entirely new conception of building design. It has freed the architect from the feeling of a solid wall as a solid opaque mass, which encloses the building, and through which he has to punch holes for windows. He is able now to think of his exterior wall as a screen transmitting light." The only transparent glass used in the building is on the ground floor for display windows. These are of the "invisible glass" type constructed on a curve to reduce light refraction.

In its complete use of air-conditioning and glass walls, the Corning building is the most modern in New York. It is an interesting commentary that the structure wrecked to make way for the newest was most modern in its day. It was built in 1870 by Charles Duggin, an architect. "Most modern" then included use of brownstone, a four-story structure, Mansard roof, statuary marble basin slabs, speaking tubes, coal bins and "a special bell that could be made to ring."

THE CORNING GLASS COMPANY'S BUILDING, NEW YORK CITY:
Detail of Entrance Front.
MR. GEOFFREY PLATT (WILLIAM AND GEOFFREY PLATT AND JOHN M. GATES), Architect.

THE CORNING GLASS COMPANY'S BUILDING, NEW YORK CITY.

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MISUNDERSTANDINGS ABOUT ARCHITECTURE

By W. S. PURCHON.

During the past twenty years or more, experience in lecturing on architectural matters in various parts of the country to many different kinds of audiences, and taking part in a very large number of attempts by means of addresses, discussions, the writing of articles, etc., to put before the public the advantages to be derived from the adequate use of the services of the architect and town-planner, has shown the present writer one thing very clearly.

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If only these misunderstandings could be removed, so that one could assume in speaking at a public meeting or in writing an article for a newspaper that one's audience or readers would not be labouring under these false impressions what a lot of time, energy and ink would be saved! But no; if one does not explain these points each time, and often even if one does, some of the same misunderstandings will make themselves felt in the subsequent discussion.

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What, then, are some of these points which crop up so frequently? The first is to the effect that architecture is quite futile, for all it means is the adding of unwanted trimmings to a building which is perfectly satisfactory without them. A lecture can be given in which this point is dealt with faithfully. The speaker can explain that beauty in architecture is not merely skin deep, but that it goes right down to the very bones of the structure. He can deal with the important parts played by plan and section, and he can talk about function and efficiency, but at the end someone will get a round of applause for stating that, notwithstanding what the lecturer has said, he still prefers a good, sensible building without a lot of unnecessary ornament!

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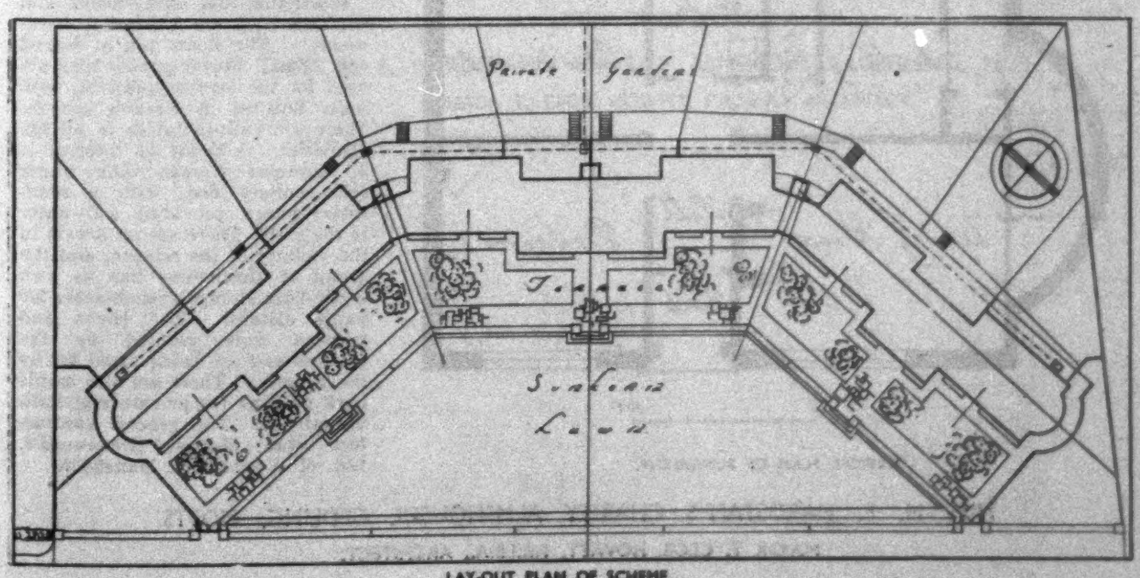

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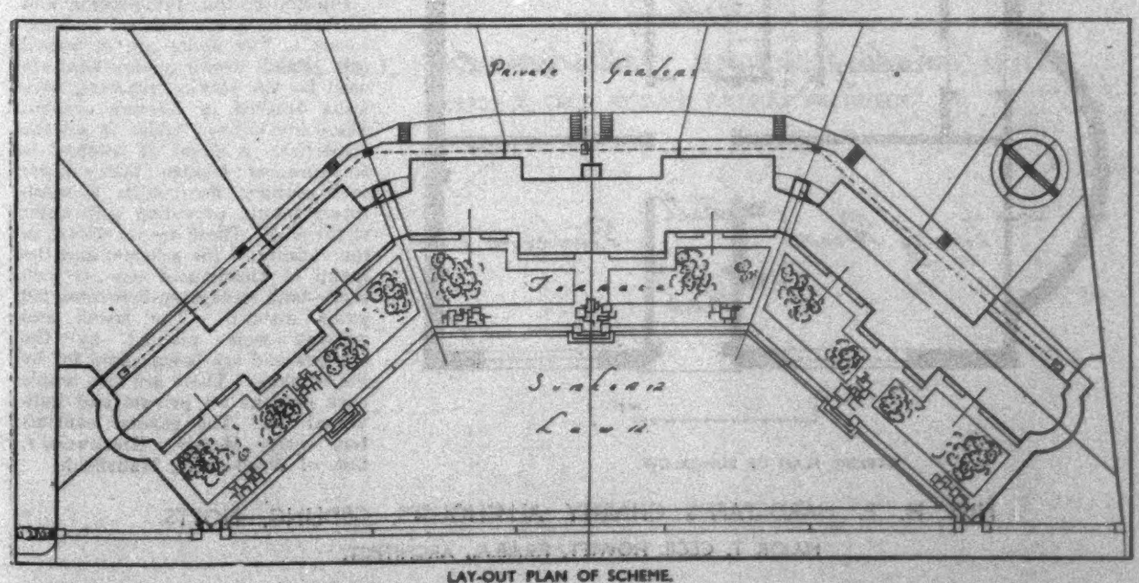


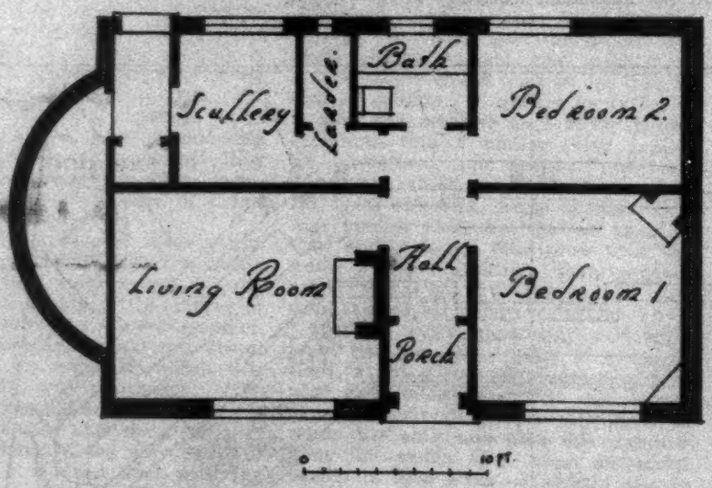
LAY-OUT PLAN OF SCHEME.

DETAIL OF ONE OF THE BUNGALOWS.

In order to give a good set-back to the majority of the dwellings, the block has been well recessed from the roadway, and all the frontages overlook a wide expanse of lawn and formal gardens. As the site is low-lying, the lawn is sunken, a fact which has economised the filling of the site. The buildings are in 2-in. thick facing bricks, showing warm shades of stone colour, and with very wide flush joints. Patches of golden and warmer brown bricks are used for quoins and window jambs, giving interest to the colour scheme.

The roofs are in greyish-brown tiles of slightly stronger tone than the general walling, and the steel casements, which have wide wooden window frames and mullions, are painted pale apple green. Other details of the exterior include oak shutters, window boxes and a cast-lead centre shield finished in coloured enamels. To avoid monotony in the skyline, two-story blocks have been introduced here and there; connecting archways with ornamental wrought-iron grilles link the buildings together and close off the back doorways from the main front.

Internally, the living-rooms and entrance halls are finished in hardwoods. The floors are of waxed oak. Small brown quarry tiles are used for the service quarters, with walls finished in Keene's cement. There are built-in tables in all the sculleries. A point of interest is a rainwater storage tank under each scullery floor, with a semi-rotary pump, providing soft water to the sink. There are no sewers in the vicinity of the scheme, and the group of almshouses has its own septic-tank storage system some 270 yards distant. The lawns and gardens were planted by the trustees and are being cared for by the tenants. There are also ample back gardens for private and individual use. The general contractors were Messrs. Greenwood's, Ltd. of Wood-street, Mansfield.



TYPICAL PLAN OF BUNGALOW.

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DETAIL OF CENTRE BLOCK

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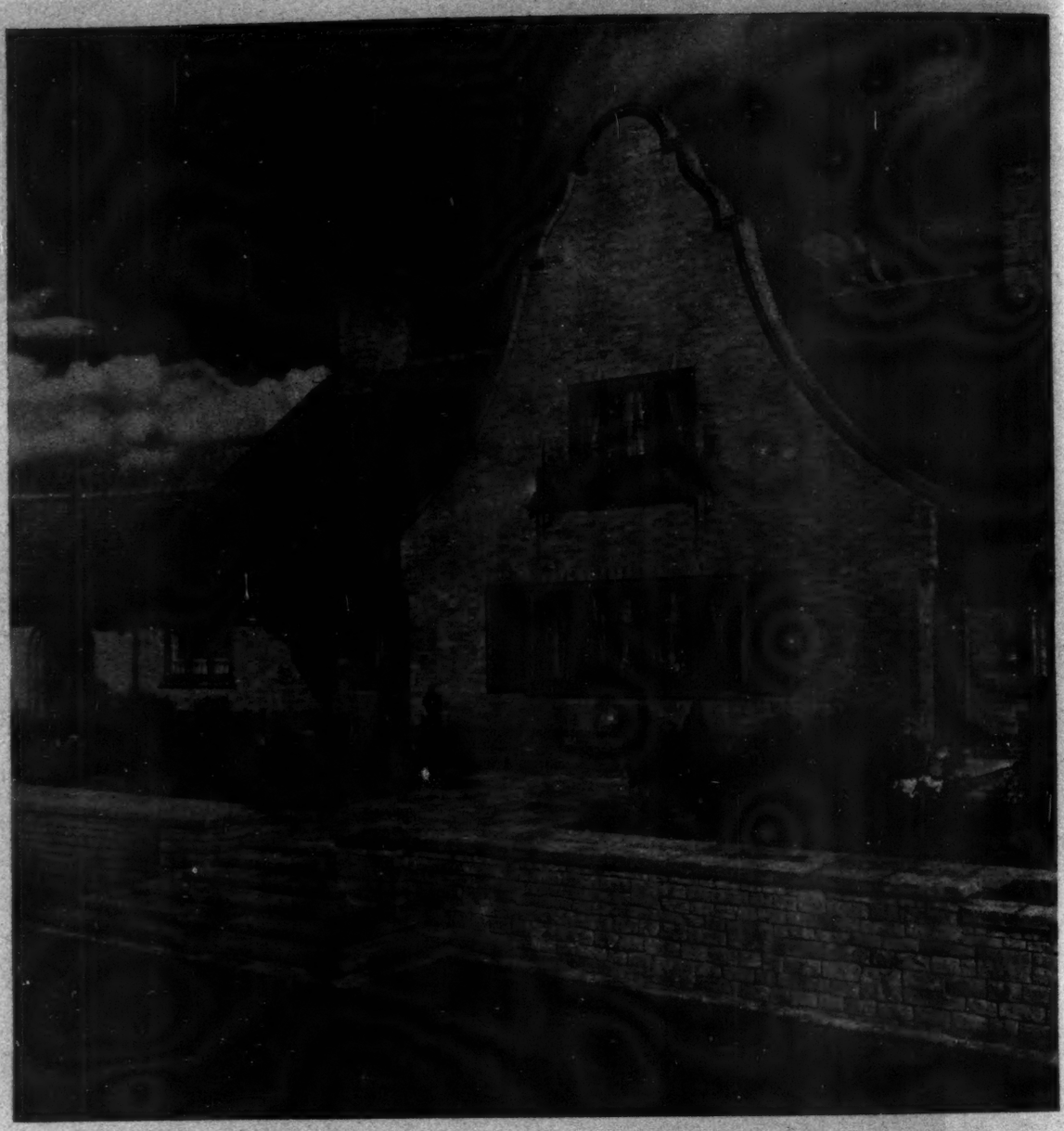
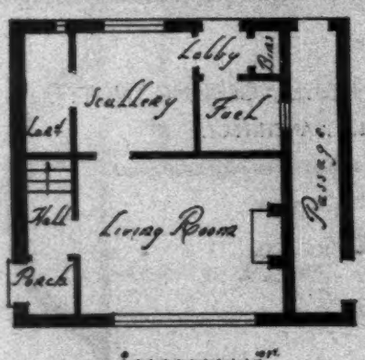
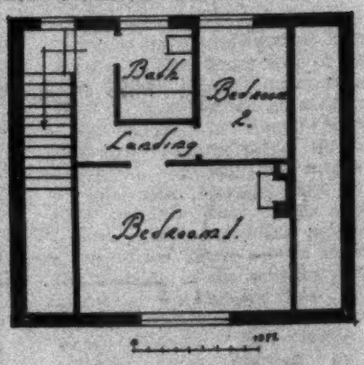




TYPICAL GROUND-FLOOR PLAN.

ONE OF THE TWO-STORIED DWELLINGS.



TYPICAL UPPER-FLOOR PLAN.

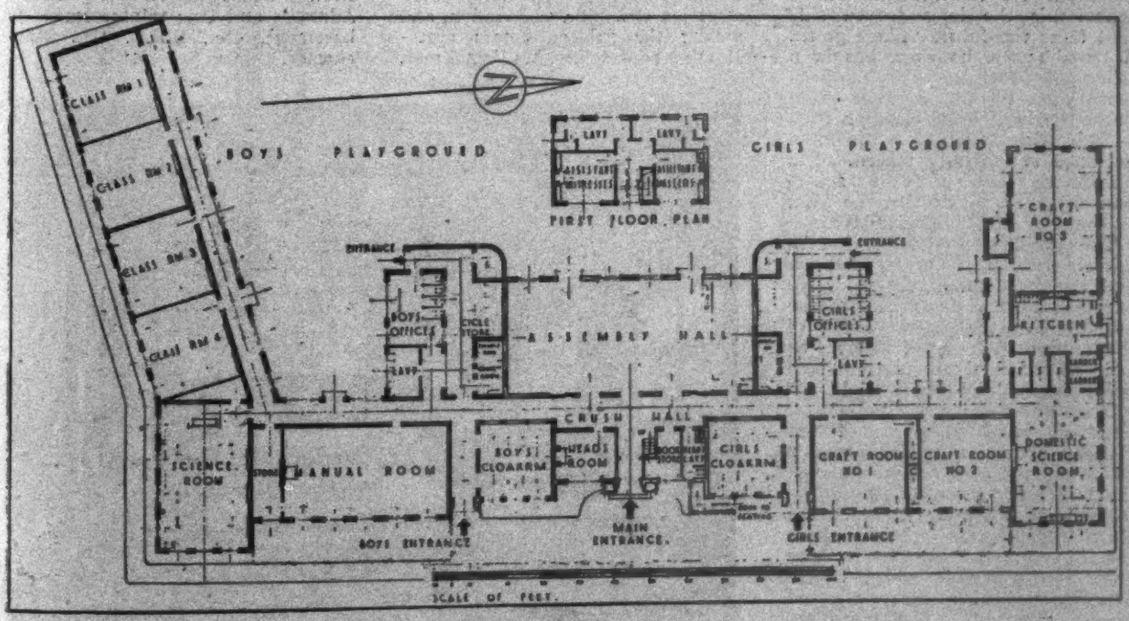
MISS M. E. HARDSTAFF'S CHARITY ALMSHOUSES, GEDLING, NOTTS.

MAJOR T. CECIL HOWITT, F.R.I.B.A., ARCHITECT.

SENIOR ELEMENTARY SCHOOL, STEWARTBY, BEDS.

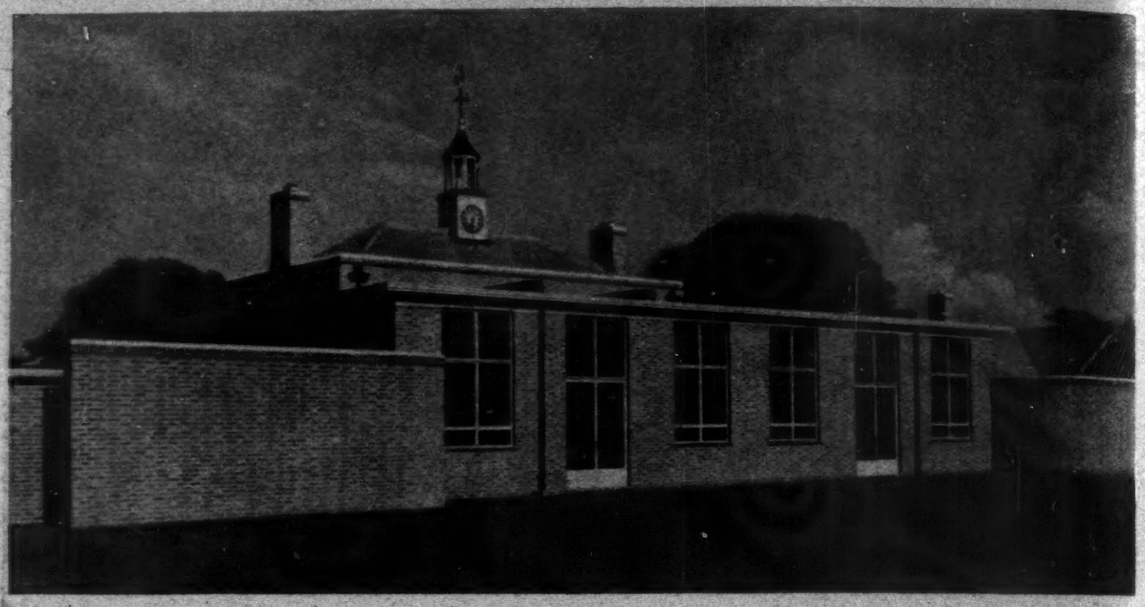
MR. OSWALD P. MILNE, F.R.I.B.A., ARCHITECT.

MAIN FRONT, SHOWING ADMINISTRATIVE BLOCK, CLOAKROOMS, ETC.



PLANS.

SENIOR ELEMENTARY SCHOOL, STEWARTBY, BEDS.



THE ASSEMBLY HALL.

STEWARTBY is "the child" of Sir Malcolm Stewart, being the village that he has created around the great Bedfordshire brickworks of the London Brick Co. Here the Bedfordshire County Council have lately built two elementary schools on a site in the centre of the village given by the brick company. The junior school (see page 324) is a small one for children of the village, and the senior school, which serves other villages as well as Stewartby, is for boys and girls.

The site is irregular in shape. The junior school is placed across the short northern end facing towards the main road, while the senior school fills the long curved side that faces the future village green. A broad space, however, has been laid out between the school and the main road for the drawing in of buses that will bring children from neighbouring villages. The main entrance is centrally placed. The classrooms are given a south-eastern aspect by canting the wing to conform with one boundary.

The problem was to design a school with good accommodation and well-fitted for a very moderate expenditure, and to harmonise the building with the general scheme of the village. Variety of interest as well as practical advantages have been obtained by the use of both pitched and flat roofs. The central pavilion, which alone is of two stories, houses the Headmaster's room and the staff common rooms, the hall being centrally placed.

The materials used externally are Rustic "Phorpres" bricks from the Stewartby works, and these have been given an added brightness by use of a cream-coloured mortar pointing. The roofs are covered with pantiles. Internally the walls generally (except in the staff rooms, which are plastered) are faced with white sand-lime bricks again painted with a cream-coloured mortar. The lower part of the walls has a dado of a pale green "Granitese." White tiling is used in the domestic science department and in the kitchen. Ceilings are plastered, and woodwork is stained green. All the rooms, and in fact all parts of the building, are admirably lighted, while cross-ventilation is generally provided by means of clerestory windows above the flat roofs of the corridors. Floors in the rooms are of wood blocks, and in the corridors are granolithic.

The general contractors were the Building and Public Works Construction Co., Ltd., of Swindon, and among the sub-contractors are:—Heating contractors, William Freer, Ltd., Wellington-street, Leicester; electrical contractors, Henry Bacchus, Ltd., 35, High-street, Bedford; bricks, London Brick Co., Ltd., Stewartby; steelwork, R. Grant and Son; metal windows, Williams and Williams, Chester; hollow tile floors, Diespeker and Co., Ltd.; wood-block flooring, Horsley, Smith and Co.; cement dadoes, Granitese (Great Britain), Ltd.; asphalting, Permanite, Ltd.; ironmongery, Comyn, Ching and Co.; cooking ranges, Smith and Wellstood, Bonnybridge; lighting fittings, Falk, Stadelmann and Co.; sanitary fittings, Doulton and Co., Ltd., Dudley; shower baths, Adamsez and Co.; reinforcement to basement, etc., B.R.C. Co., Manchester.

THE PHYSICS LABORATORY.

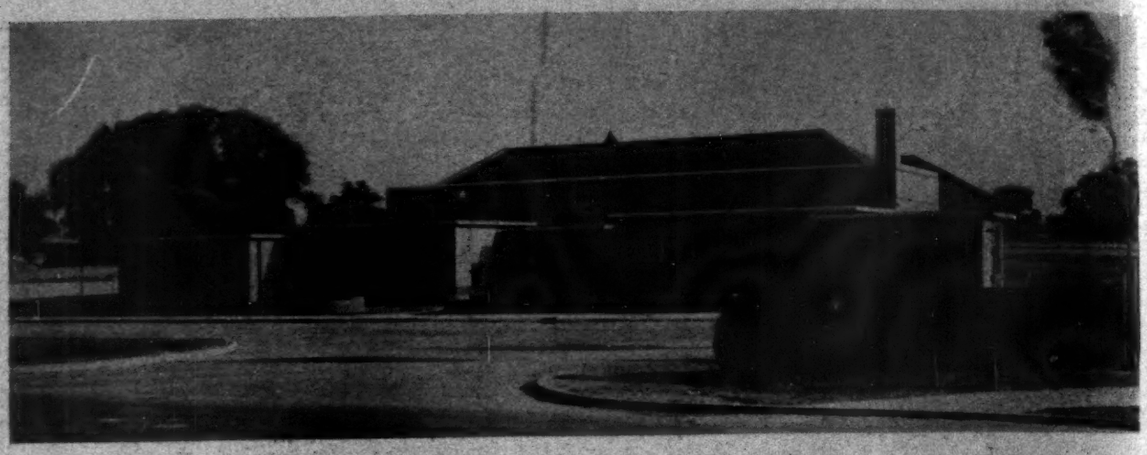
MR. OSWALD P. MILNE, F.R.I.B.A., ARCHITECT.

THE ASSEMBLY HALL, LOOKING TOWARDS STAGE.

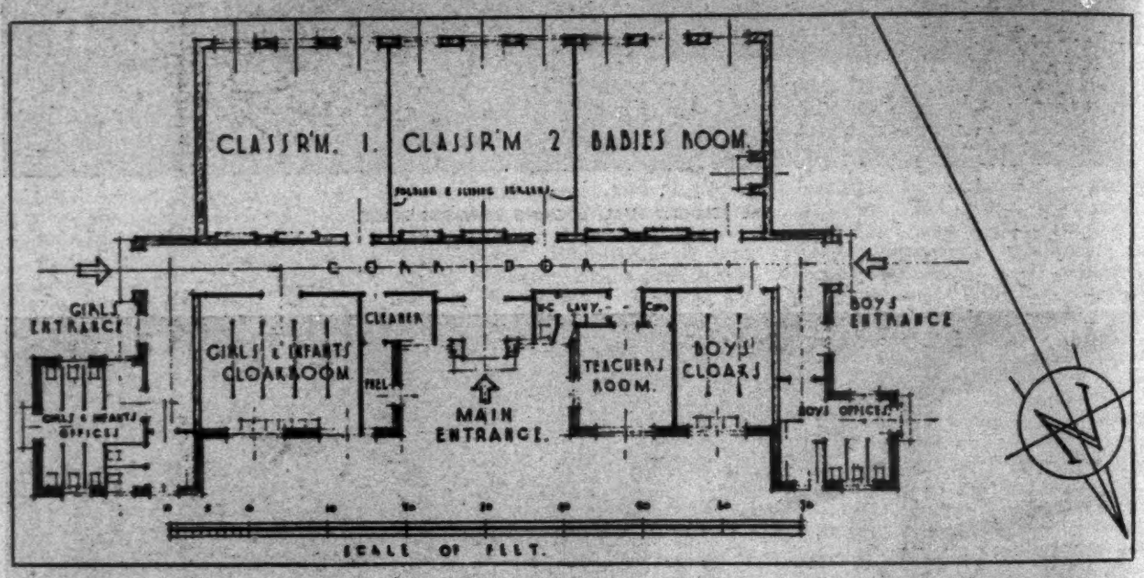
A CORRIDOR.

JUNIOR ELEMENTARY SCHOOL, STEWARTBY, BEDS.

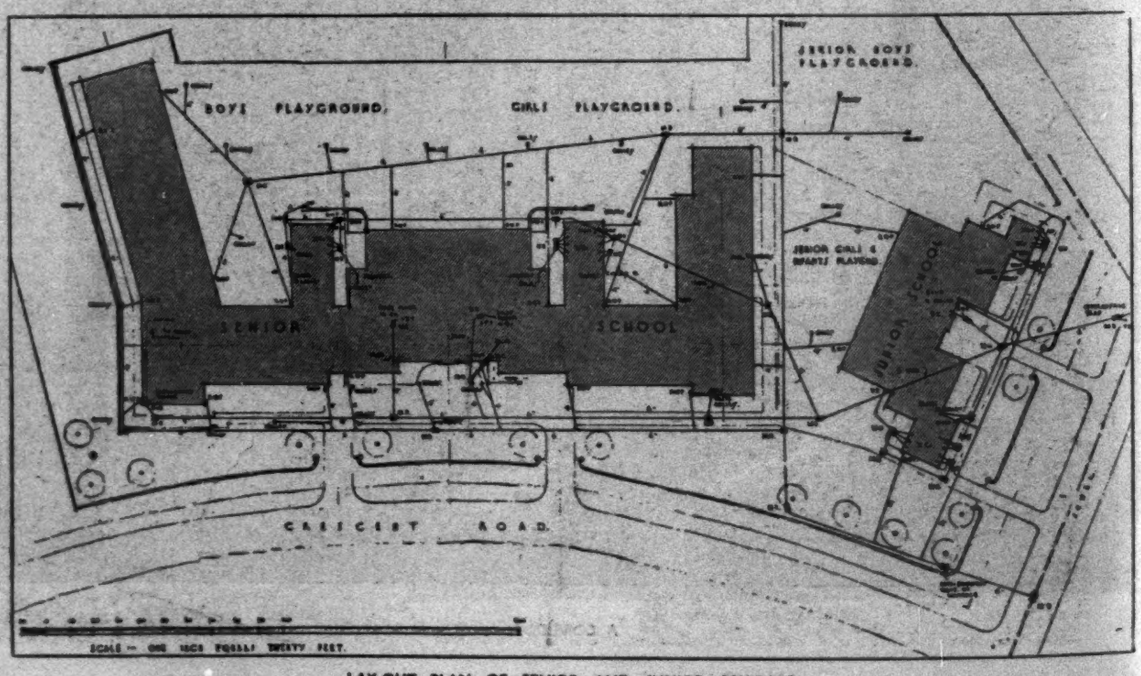
MR. OSWALD P. MILNE, F.R.I.B.A., Architect.



THE JUNIOR SCHOOL, FROM MAIN ROAD.



THE PLAN.



LAY-OUT PLAN OF SENIOR AND JUNIOR SCHOOLS.

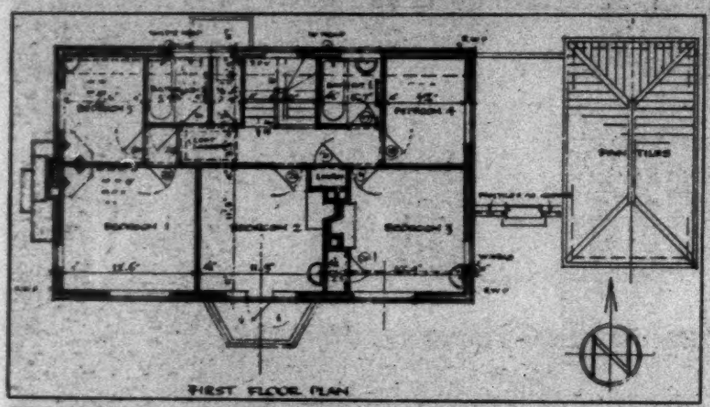
LIME TREE COTTAGE, BUCKHOLD, BERKSHIRE.

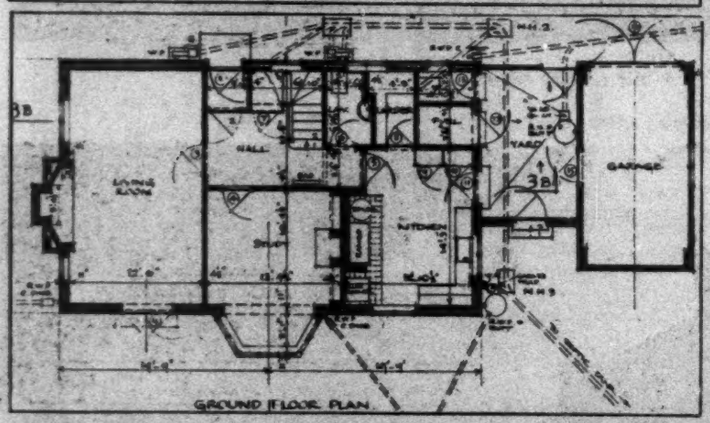
MR. A. LLEWELLYN SMITH, A.R.I.B.A., ARCHITECT.

THE GARDEN FRONT.

THE ENTRANCE FRONT.

THE ENTRANCE FRONT, FROM N.W.





THE STUDY.

THE HALL.

LIME TREE COTTAGE was designed for a preparatory schoolmaster, Mr. Ivor Sant, by one of his old pupils, and was completed in the autumn of 1936. It stands close to St. Andrew's School, Pangbourne, and enjoys extensive and beautiful views to the south and west over a valley in the chalk downs, while it is sheltered on the east and north-east by a belt of trees. The household normally consists of the client himself—a single man—and a resident housekeeper, but there are three spare bedrooms for guests.

The general contractors were Messrs. Mardon, Ball and Co., of Farnham, Surrey. The external walls are 11 in. cavity walls constructed of local common bricks, lime-whitened. The upper floor and roof are of timber construction. The internal wall and ceiling surfaces are in lime-plaster, finished with a wooden float and distempered. The internal flush doors, mantel-shelves and staircase are in oak and the remaining joinery in deal painted white. The fireplaces are in 2½ in. facing bricks.

The following sub-contractors and merchants were engaged on the work: Wotton and Sons, Ltd., Croydon, steel casements; The Acme Flooring and Paving Co. (1904), Ltd., Barking, Essex, Rhodesian mahogany wood block floors in living-rooms and hall; R. W. Steele and Co., Ltd., W.C.1, hot and cold water services; The Merchant Trading Co., Ltd., W.C.2, flush doors; Nicholls and Clarke, Ltd., E.1, sanitary goods, ironmongery and stoves; G. and A. Tuck, Ltd., Upshire, Essex, roof tiles; and Troughton and Young, Ltd., S.W.1, electric light fittings.

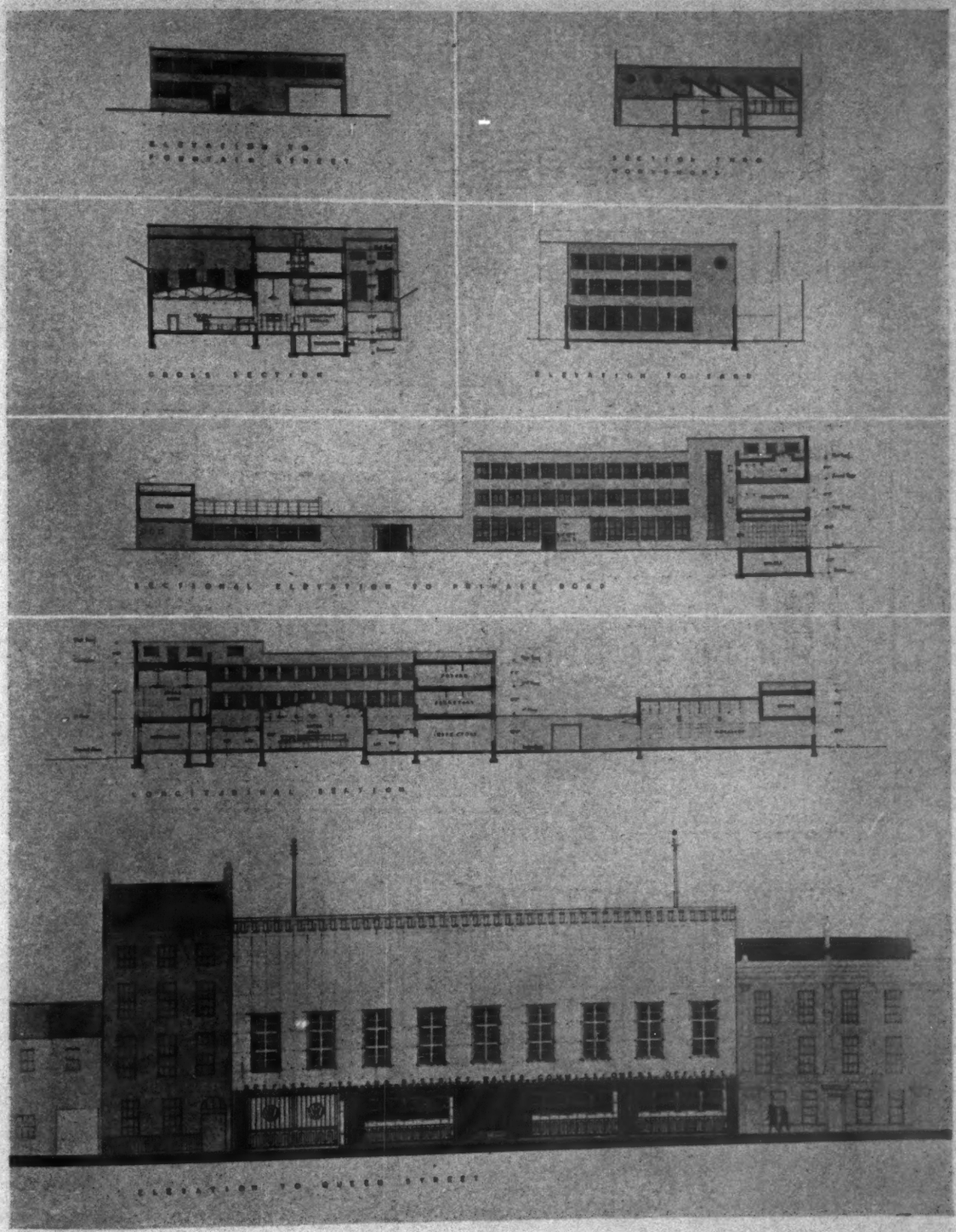
The total cost of the house—inclusive of site work, septic tank drainage, etc., but excluding fencing and gravel—was £1,950, and the cost per foot cube worked out at approximately 1s. 6½d.

LIME TREE COTTAGE, BUCKHOLD, BERKSHIRE.

MR. A. LLEWELLYN SMITH, A.R.I.B.A., ARCHITECT.

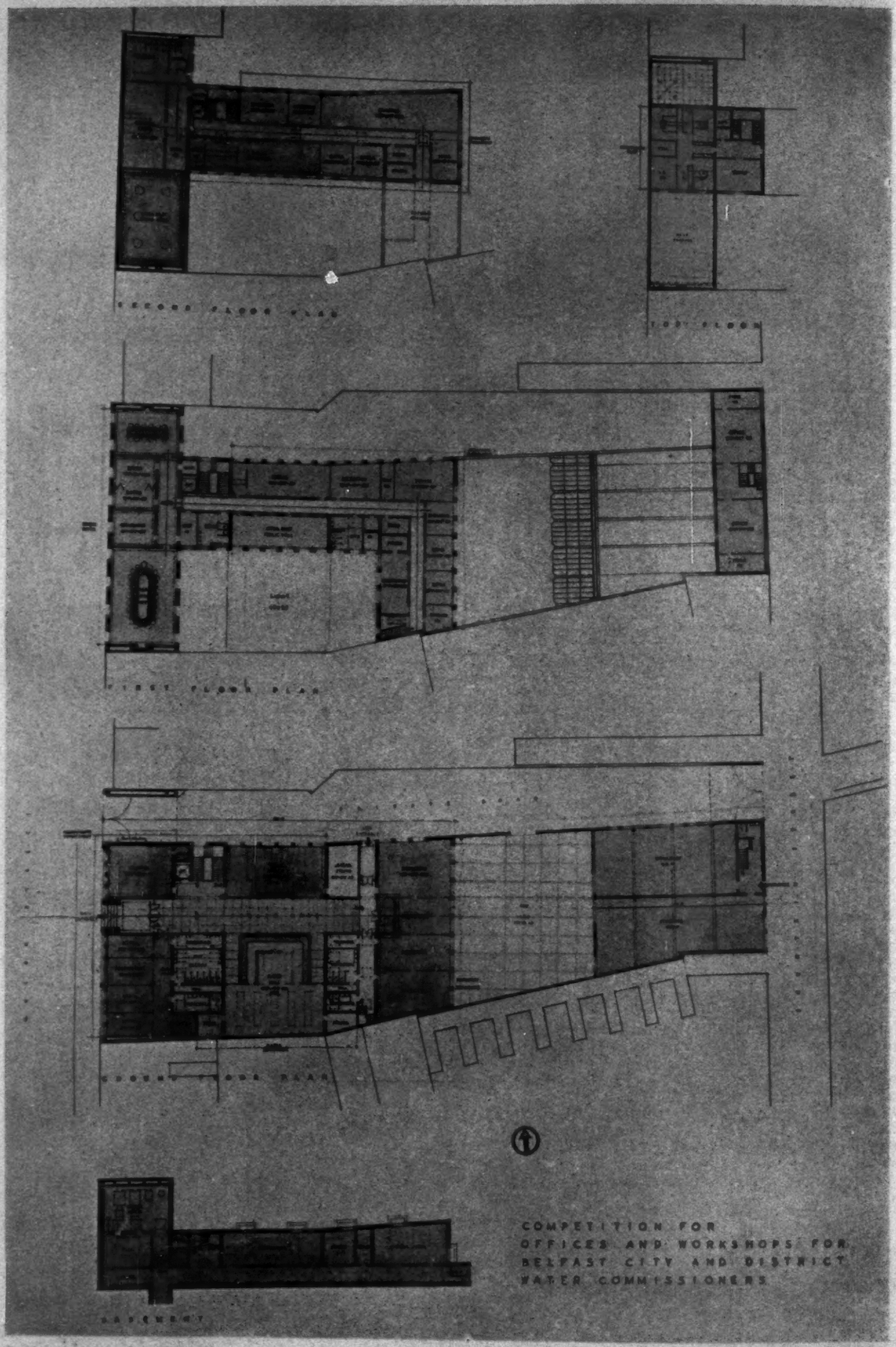
COMPETITION FOR NEW WATER OFFICES AND WORKSHOPS, BELFAST: WINNING DESIGN.

MESSRS. SILCOCK AND THEARLE, AA.R.I.B.A., ARCHITECTS.



COMPETITION FOR NEW WATER OFFICES AND WORKSHOPS, BELFAST: WINNING DESIGN.

MESSRS. SILCOCK AND THEARLE, AA.R.I.B.A., ARCHITECTS.



WATER COMMISSIONERS' OFFICES AND WORKSHOPS, BELFAST

THE ASSESSOR'S REPORT.

THE award in this competition is given under Competition News (page 312). We illustrate the winning design this week. The assessor, Mr. H. Austen Hall, F.R.I.B.A., in his report, writes :—

"I have carefully examined the 56 designs submitted in this competition, and I award the premiums as follows :—

"Design placed first, 46 [Messrs. Silcock and Thearle, AA.R.I.B.A.]; second, 7 [Messrs. Lyons, Israel and Elsom, AA.R.I.B.A.]; third, 4 [Mr. H. T. Wright, F.R.I.B.A.]

"The selected design fulfils the conditions of competition admirably, and is at once a practical and imaginative solution of the problem that was given to the competitors.

"The offices are well grouped and well lighted, and are in accordance with modern practice in the planning of similar buildings.

"A particularly good point is the large open area on the south side at first-floor level. This gives the maximum light in all floors of the building, and the section is designed to take the fullest advantage of this arrangement.

"Owing to economical planning, a large yard is provided in the rear amounting to 530 yd. in area. This yard and the workshops adjoining occupy about one half of the site, which, therefore, becomes available for future development if the workshops are removed at a later date. The importance of this will easily be recognised.

"The elevation to Queen-street is in accordance with the modern spirit that is to be seen elsewhere in Belfast, and should be most successful and interesting in execution.

"I recommend a few modifications as follows : (1) The Secretary's Department requires rearrangement of rooms to bring the Secretary nearer the Chairman. (2) The basement should be reduced in size owing to the difficulty of building below ground-level. (3) The future extension should be built now in order to provide means of exit from the first floor. It is also cheaper to provide this accommodation in the first instance.

"The estimate of cost is £79,102 5s., to which should be added about £2,000 for the extension, making an approximate total cost of £81,000. The amount authorised in the conditions of competition was £90,000.

"The drawings generally exhibit a high degree of merit, and the Commissioners may well feel satisfied with the quality of the designs and the number of competitors who have submitted their work.

"I particularly commend the elevations of Nos. 7 and 4, which I have placed second and third, and also the elevations numbered 15, 16, 33 and 52.

"No. 44 appears to be an alternative by the author of the selected design, which it very closely resembles. For this reason only it has not been given a place."

THE WINNERS' REPORT.

Following is the winners' report :—

General Considerations.

The accompanying scheme has been designed with the following main points in view :—

(1) Well-lighted, flexible office space, with correctly placed stairs and lavatories, and the possibility of easy and economical extension.

(2) Economy of planning, and therefore of cost.

(3) A well-placed, self-contained board-room suite, separate yet easily accessible from the general offices.

(4) A dignified elevation to Queen-street, expressive of the importance and partially civic character of the building.

(1) The problem of adequately lighting the back offices on so enclosed a site has been solved by grouping the upper-floor accommodation around a single area which is as large as the site will permit, and by maintaining, on these floors, a comparatively shallow office unit. On the ground floor, the main public hall has been carried up through two stories, and the large area of south clerestory windows will flood the centre of the building with light. The only deep offices, those of the inspectors, have good side light across the width of the yard, and here the precaution has been taken of increasing the floor height so as to obtain greater window space, and of providing additional clerestory lighting on the opposite side. The placing of the stairs will satisfy the requirements of the fire authorities, while neither stairs nor lavatories interrupt the continuous run of the office space. With flush ceilings and continuous windows at about 7 ft. 6 in. centres, the partitions can be moved with the minimum of inconvenience. In the placing of the lavatories, attention has been paid to the distribution throughout the building of the various sections of the staff for whom separate accommodation is required. Thus, both clerks and principals are provided for on the ground floor and second floor, inspectors on the ground floor near their offices, and women on the first floor, near the typists' room. The messengers, whose room is on the first floor, have their messroom on that floor and their lavatories at the foot of the stairs, which they will commonly use when passing in or out of the building. The board-room lavatories are convenient to the board-room suite, and it is thought probable that they will be used by the first-floor principals when the board is not sitting. Extension is provided for at second-floor level at the east end of the building.

(2) By placing offices on both sides of the main corridors, in accordance with the general trend of design for buildings of this type, a considerable saving in corridor has been effected and the building has been reduced in size so as to allow adequate space for the yard, which has an area of about 530 yd. super. It should be noted, however, that though the plan is economical, and while no space has been lost unnecessarily, the design loses nothing in spaciousness and a really fine public hall has been provided which gives interest to the whole building. The carrying up of this hall to the first floor has of necessity curtailed the space at this level, but it is felt that the gain to the building is enormous, while the only sacrifice is the removal of the engineers' offices to the second-floor level. Here the public office is excellently placed in relation to the lift, while the proximity of the various rooms to each other should add considerably to convenience in the administration of the department.

(3) The board-room suite, occupying the Queen-street frontage at first-floor level, can be cut off entirely from the offices, while the position of the main stair and lift is such as to allow direct access without traversing corridors. The board-room itself has been carried up through two stories and is of monumental proportions. The two extra rooms are divided by a folding partition and can be thrown together to form a single room of good size.

(4) Breadth has been given to the main façade by building across the private roadway and by establishing the main axis on the middle of the whole frontage. The expanse of unbroken walling above the windows of the board-room suite adds dignity and character to the elevation and is made possible by the requirement of extensive general store-rooms. It has been felt that the height of the new offices should at least equal that of the neighbouring old buildings, and this has been achieved by placing the caretaker's flat at third-floor level and by providing a screened roof garden and yard in conjunction with it. The living-room of the flat has a south aspect, and the lighting requirements of all its rooms are provided for without the necessity of bedroom windows on the main façade.

Materials and Construction.

The building will be steel-framed and built in accordance with the Belfast building regulations, and will be of fire-resisting construction throughout. Floors and flat roofs will be of reinforced concrete of the hollow tile or other suitable type; stairs will also be of reinforced concrete. Windows to the Queen-street façade will be of teak, painted; elsewhere, of rust-proofed steel. Walls will be generally of brickwork, and it is proposed to face the Queen-street façade with specially selected travertine marble above first-floor level, as the nature of the design lends itself excellently to the exploitation of this material's texture. Below first-floor level the walls will be faced with silver-grey quarzite, and the columns will be carried out in a very dark Issore green marble. The applied letters will be in anodised aluminium. For the back offices a suitable grey facing brick will be employed. Flat roofs will be covered with asphalt, while the internal floor coverings will consist of rubber for the offices and corridors, and terrazzo for the lavatories and secondary stairs. The main entrance, public hall and main staircase will be paved with travertine, patterned with other marbles, while the board-room suite will be carpeted. Walls generally will be covered with Sirapite or other hard wall plaster, flat oil painted, and plywood dadoes and panelling will be used in important rooms. Suitable portions of the board and committee rooms will be treated with acoustic plaster. Doors generally will be flush panelled with solid core to prevent drumming, and, where necessary, will be hung with check and spring hinges. All internal painted joinery will be finished with synthetic enamel.

Heating and Ventilating.

Offices.—The heating of the building will be by means of a low-pressure hot-water circulation, accelerated by electrically driven pumps, and acting through the medium of concealed ceiling panels. The boiler plant will be designed to provide automatic firing with small coal, and will be thermostatically controlled to effect the maximum fuel economy. Both the pump units and the boiler plant will be in duplicate. All heating mains will be run in ducts in concealed positions, and the heating panels will have local valve control. The system will be designed to maintain a comfort condition throughout all rooms equivalent to 65 deg. Fahr. An independent hot-water supply, fed from a calorifier, will be provided which will permit of a continuous supply of hot water to all draw-off points.

Ventilation.—Plenum ventilation will be installed to the main offices and board-room suite. The air will be drawn from the outside atmosphere, and cleaned and warmed prior to being diffused throughout the rooms, by passing over a humidifier and batteries. A system of concealed air ducts will be connected to the supply fan in the ventilating chamber, and arranged to discharge fresh warmed air through the registers. A similar system of ducts and fans will effect the complete removal of all vitiated air, and this system will be extended to deal with the smaller offices and lavatories throughout the building.

Workshops.—The heating of the workshops and their offices will be carried out from the main boiler plant by means of an independent circulation. The ventilation to these will be by natural means.

Winners' Previous Successes.

Mr. Spencer Silcock has had previous competition successes, either by himself or in collaboration with other architects, as follows : Leicester Municipal Offices, new Liverpool Orphanage, Warrington Grammar School, Wesleyan Sunday School, Stockport, Southport Civic Buildings (second), Accrington Police and Fire Station (second), Peterborough Town Hall (third), etc.

Mr. Herbert Thearle's previous competition successes in collaboration with other architects are as follows : New Liverpool Orphanage, Birkenhead Art Gallery, and Southport Civic Buildings (second).

SOCIETIES & INSTITUTIONS

R.I.B.A.

Final Examination.

The Final Examination qualifying for candidature as Associate R.I.B.A. was held in London and Edinburgh from July 14 to 22. Of the 222 candidates examined, 103 passed (44 in Part 1 only) and 119 were relegated. The successful candidates are as follows :—

E. Albarn.
L. B. Ballon.
C. P. Beauchamp.
J. F. Benson.
S. Blank.
L. Blease (*Part 1 only*).
C. T. G. Boucher.
F. G. Broadbent (*Part 1 only*).
I. A. Brown.
P. E. Cooke (*Part 1 only*).
I. F. Calder.
C. W. Coster.
R. Cowan (*Part 1 only*).
C. V. Crane.
J. J. Cunningham.
J. H. Daniell (*Part 1 only*).
H. A. J. Darlow (*Part 1 only*).
B. H. Dowland (*Part 1 only*).
R. L. Filmer (Miss) (*Part 1 only*).
D. Fletcher.
J. P. Floyd.
R. W. Foreman (*Part 1 only*).
R. O. Foster.
W. R. Fowler (*Part 1 only*).
R. H. Franks (*Part 1 only*).
A. Frearson (*Part 1 only*).
A. E. Gerrard.
A. G. Goodair.
A. A. Haggar.
L. H. Hammond (*Part 1 only*).
J. K. Hawkes.
G. H. Hawkins (*Part 1 only*).
G. H. B. Heritage (*Mark of Distinction in Thesis*).
E. C. C. Hicks.
H. H. J. Hobday (*Part 1 only*).
A. P. Hodgson.
D. A. Hogben.
K. le G. Hookings (*Part 1 only*).
D. R. Humphrys (*Part 1 only*).
R. W. Hurst (*Part 1 only*).
S. J. H. Jackson.
E. D. Jordan (*Part 1 only*).
R. C. Kemp.
T. B. Kennedy (*Part 1 only*).
D. S. Kilner.
E. Kingborn.
E. A. J. Lane (*Part 1 only*).
G. I. Larkin (*Part 1 only*).
T. P. L. Le Brieto (*Not a British subject*).
R. K. Lewis.
J. C. Loyd (*Part 1 only*).
L. A. Macintosh.
D. G. Madge.
D. G. Martin (*Mark of Distinction in Thesis*).
E. Mason (*Part 1 only*).
J. A. Mandaley (*Part 1 only*).
H. V. Mellor.
F. G. Milson (*Part 1 only*).
E. W. J. Mitchell.
N. E. S. Morris.
H. G. Moseley.
G. D. Nash (*Part 1 only*).
D. B. Nield.
F. C. Otton.
T. D. Oxley (*Part 1 only*).
W. M. T. Parsons.
R. H. Pantakis.
E. F. Post (*Part 1 only*).
H. E. D. Perryer (*Part 1 only*).
A. F. Peterson (*Part 1 only*).
J. W. Pickering.
A. Pickford.
R. A. Pickmere.
T. Pilkington.
G. W. Pollard.
H. J. Powell (*Part 1 only*).
F. R. Pratten (*Part 1 only*).
A. Proskauer (*Not a British Subject*).
G. Ray.
E. B. Redfern (*Part 1 only*).
P. H. Redknap (*Part 1 only*).
A. G. Reeves (*Part 1 only*).
G. P. Scott.
J. J. Shannon.
A. J. Smith.
D. J. Smith.
H. A. F. Spooner (*Part 1 only*).
K. A. Stevens.
A. Swift (*Part 1 only*).
J. P. Taylor.
R. W. Tippetts.
D. R. N. Tooth (*Part 1 only*).
R. M. Torrens (*Part 1 only*).
F. A. Turner.
F. J. W. Turner.
R. Ward.
A. F. Watson (*Part 1 only*).
L. E. Webster (*Part 1 only*).
M. F. White.
H. L. Williamson (*Part 1 only*).
R. D. Wormald.
R. K. Wright (*Part 1 only*).
W. J. Wynn.

The Special Final Examination.

The Special Final Examination qualifying for candidature as Associate R.I.B.A. was held in London and Edinburgh from June 14 to 20. Of the 55 candidates examined 16 passed (7 in Part 1 only) and 39 were relegated. The successful candidates are as follows :—

F. Bowman.
H. W. Bullen (*Part 1 only*).
A. C. Byne, (*Part 1 only*).
G. W. Callander.
R. D. Derham (*Part 1 only*).
C. J. Dixon.
W. K. Laurie.
S. G. Lawrence (*Part 1 only*).
R. Little.
A. L. F. Pegg
J. F. Shortall.
F. G. Southgate.
F. G. Sturrock.
W. Tarn (*Part 1 only*).
F. Waddington (*Part 1 only*).
J. E. Whitley (*Part 1 only*).

The Examination in Professional Practice for Students of Schools of Architecture recognised for exemption from the R.I.B.A. Final Examination.

This examination was held in London and Edinburgh on July 20 and 22. Of the 12 candidates examined 8 passed and 4 were relegated. The successful candidates are as follows :—

S. J. Bubb.
F. W. Griffiths.
I. B. Kinnear.
J. A. Le Rossignol.
M. J. S. Love (Miss).
S. M. Scott (Miss).
E. F. Tew.
C. W. L. Windle.

R.I.B.A. Examinations, June and July, 1937.

The questions set at the Intermediate, Final and Special Final Examinations held in June and July, 1937, have been published, and are on sale at the Royal Institute, price 1s. (exclusive of postage).

INSTITUTION OF STRUCTURAL ENGINEERS.

Examination Results.

The July examinations of the Institution of Structural Engineers were held in London and at the following centres in the British Isles: Birmingham, Bristol, Manchester, Middlesbrough, and Dublin. The total number of candidates who appeared at these centres was 85, of whom 38 took the Graduateship Examination and 47 the Associate-Membership Examination. Of these candidates 17 passed the Graduateship Examination and 25 the Associate-Membership Examination. The following candidates were successful :—

Graduateship Examination.

S. C. Baker.
J. D. Batra.
J. Bird.
J. H. Brown.
B. T. Francis.
J. F. Fennell.
H. C. W. Gallifford.
S. Y. Gubbay.
T. E. R. Hazeldine.
S. G. Holland.
C. A. Macdonald.
P. H. Perkins.
J. J. Robson.
S. F. J. Rudkin.
E. H. L. Williams.
W. Willcox.
F. S. Wilson.

Associate-Membership Examination.

F. Ablett.
A. M. Ashton.
J. D. Batra.
A. I. Black.
D. F. Cooch.
W. L. Day.
E. W. Driver.
L. Foster.
B. T. Francis.
S. V. Gardner.
T. C. Glenn.
R. H. C. Gates.
S. G. Holland.
E. Hopkinson.
G. F. Mason.
E. H. Moody.
A. A. Novell.
J. T. Partington.
C. Probert.
H. A. Roberts.
S. J. Seabrook.
J. Slater.
P. H. Stirzaker.
J. B. Story.
G. M. Thomson.

MODEL BY-LAWS—V

By W. T. CRESWELL, K.C., assisted by NORMAN P. GREIG, B.A., Barrister-at-Law.

SITES.

Drainage of Subsoil.

By-law 19 requires the subsoil of the site of a building [other than a building of the warehouse class (*i.e.*, a warehouse or factory) intended to be used wholly or principally for storage or the accommodation of plant] to be effectually drained, if the dampness or position of the site renders this precaution necessary. Alternatively, a layer of impervious material must be placed upon the site so as to protect the building effectually from damp arising from the subsoil.

In practice it is often found necessary to adopt both these methods to prevent the passage of dampness and ground air from the soil beneath rising into the interior of the building. Especially is this necessary where the subsoil is of a retentive nature, as in some kinds of clay.

Subsoil drains are usually formed with pervious pipes of earthenware, without joints, laid, butted together, to falls in V-shaped cuttings in the ground. Covered pits brought to the surface, similar to inspection pits or manholes, are provided to the drains at suitable places for their examination and clearance when required, and the discharge is taken into a ditch into the open air or into a tank. When this cannot be arranged, a disconnecting manhole (*i.e.*, a manhole with a disconnecting trap) is built at the lower end of the system so that no sewer gas can enter therein, and the discharge is then turned into the sewers of the local authority. When the "separate system" of drainage is provided, the discharge may, however, be turned into the rainwater drain direct.

In this connection it may be mentioned that by Section 39 (i) (*b*) of the Public Health Act, 1936, a private sewer or drain must not be in such a defective state as to admit subsoil water.

The following cases are interesting as bearing on matters affecting subsoil drains, pits, etc. :—

In *Pakenham v. Ticehurst R.D.C.* [(1903), 67 J.P. 448], it was held that a cesspool, by the construction of a sewer which led out of it, may become a mere "catchpit," and hence part of the whole sewer. It is not necessary for a pipe to convey sewage matter to constitute it a sewer; for the purposes of the Public Health Act, 1875 (now the 1936 Act), it would be a sewer if it contained rain or surface water only. Again, draining of rain or surface water from different premises by different feeders into one main drain would make that drain a sewer under the Act (see *Ferrand v. Hallas Land and Building Co.* (1893), 2 Q.B. 135, 144; 57 J.P. 692). It has also been held that a drain came within the definition in Section 4 of the 1875 Act (Section 343 of the 1936 Act), although it only carried off rainwater from the roof of a house, a decision approved by the House of Lords in another case (*Silles v. Fulham B.C.* (1903), 1 K.B. 829; 67 J.P. 273), where it was held that a pipe which carried off sewage and rainwater from one house and rainwater only from another, and not made as a combined operation under an order of a local authority, was a "sewer" and not a "drain."

Prevention of Damp.

By-law 20 requires the ground surface enclosed within the external walls of a domestic building (*i.e.*, a dwelling-house, shop, office building, or any other building which is neither a public building nor a building of the warehouse class), and, unless the exceptional condition of the site or soil renders it unnecessary, to be (*a*) properly asphalted; or (*b*) covered with a layer of spade-finished cement-concrete, 6 in. thick, or 4 in. thick only if on a bed of clinker, broken brick or similar material; or (*c*) covered in a suitable manner with some not less suitable material.

The object of all this is, as above explained, to prevent the passage of dampness or ground air from the soil beneath rising into the interior of the building.

Elevation of Sites.

By-law 21 (1) requires the site of a building (other than a building of the warehouse class intended to be used wholly or principally for storage or the accommodation of plant) which forms or has formed part of a clay pit, or which has been so excavated wholly or in part as to need raising to prevent dampness, to be raised to an adequate height by the deposit of layers of sound and suitable material, properly consolidated.

By-law 21 (2) deals with the elevation of a low-lying site of a domestic building intended to be used wholly or principally for human habitation. Such sites are found near rivers, and it is particularly to be noted that the subclause may be omitted if not required. It is provided (*a*) that the ground within the external walls of domestic buildings in a low-lying area is to be raised by the deposit of sound and suitable material properly consolidated, so that its surface, or the surface of any asphalt, concrete or other material placed thereon, in accordance with By-law 20 as to the prevention of damp (see above), is at a height stated (to be inserted into the by-law) above a given datum (Newlyn or Liverpool); or (*b*) that the building is to be erected upon cement concrete, masonry or brickwork, or other suitable and sufficient supports (such as piers or piles) the top of which is to be not less than the height given above the inserted and given datum (Newlyn or Liverpool), as the case may be.

Clause 10 of the Memorandum to the new model is concerned with By-law 21 (2). Its contents, briefly stated, comprise the following points : where the clause is included, the Minister requires to be satisfied that the requirements are reasonable; hence local authorities should consider, by local knowledge, the height of flood level and the affected areas, and especially see that the levels put before the Minister can be supported, on challenge—they should be the *essential* levels. Where the water levels vary only slightly, it may be enough to give the height above Ordnance datum below which the by-law comes into force without defining an area otherwise than by height, but in places of varying level, where flooding is affected by local conditions, it may be necessary to define the areas liable to be flooded and to limit the by-law to these areas.

Proposals to make a by-law should be supported by (*a*) a map showing in colour the area or areas to which the by-law would apply, height above Ordnance datum marked in as many places as necessary, together with the height above Ordnance datum of the highest known flood *at those places;* and (*b*) a report by the authority's engineer or surveyor showing the need for the by-law and containing evidence of the height, etc.

The reason for the alternative reference to the two data is given, viz. : The new levelling by the Ordnance Survey, which is based on the mean sea level at Newlyn.

The clause also points out that the difference between the old levels is shown on all 1/2500 and 6-in. Ordnance maps since April, 1929, and directs that where the Newlyn datum is referred to in the by-law it should be stated in the margin of the draft whether maps referring to that datum are available for the whole of the district.

BUILDING RESEARCH PROGRESS

The Building Research Board, in presenting their Annual Report for 1936,* issued this week by the Department of Scientific and Industrial Research, invite special attention to a review of the work of the Building Research Station since its establishment eleven years ago, prepared by Dr. R. E. Stradling, the Director of Research. "In this short period," the Board state, "the Station has become a real factor in the building industry. Of this, the increase in the number of inquiries received annually, from 190 in 1927 to 2,862 in 1936, with an increase of nearly 500 in 1936 over the figure in 1935, is significant. The explanation of this rapid success is to be found, on the one hand, in the good will of the industry and, on the other hand, in the wide range of researches covered and in the readiness of the Station to co-operate with industry, especially in making available for application to everyday problems its accumulated knowledge and experience."

The Achievements of Eleven Years.

A perusal of Dr. Stradling's retrospect shows that in the past eleven years the Building Research Station has made substantial progress towards the solution of problems involved in the use of practically every building material, both traditional and new. One investigation is likely to lead to specification testing of cement being placed on an entirely new footing, and in another, methods have been evolved by which the considerable variations in the strength of concrete as produced on a job can be reduced. The gradual application of these methods in the industry is, it is stated, having a steady effect in improving the quality of concrete structures. Chemical studies have led to the discovery of substances from British sources which render concrete more resistant to chemical attack. In some cases the work has resulted in new industries being started. For instance, the production of bricks by a steam curing process from spent oil shale and lime has been investigated, and the commercial production of this type of brick has been started in Scotland. Commercial production of materials for making good light-weight concrete from blast furnace slags has also been begun.

Studies have been made of the properties of building stones and the causes of their weathering and decay. This work has now made it possible to help the building industry in the selection of materials and in the maintenance of masonry. The Building Research Station has also devoted attention to those properties of bricks which may give cause for dissatisfaction. The presence of a small percentage of bricks of unsatisfactory quality in an otherwise good consignment mar the appearance of any building. It is now possible to examine samples of clay and indicate the best firing temperature for bricks made from it. It is also possible to estimate the risks involved if this temperature is not obtained. The importance of particular firing temperatures in eliminating the salts which, by crystallising out, may cause unsightly stains or even the disintegration of bricks has also been clearly brought out.

A considerable amount of work has been carried out on plaster, mortars and rendering. The object of rendering is usually to prevent damp penetrating into walls, and it is perhaps natural to suppose, the Report states, that the most impermeable rendering possible is the most suitable for this purpose. It is also often the practice to give such renderings a very smooth finish, partly perhaps with the object of making them still more impermeable. But owing to the high shrinkage of cement mixes, especially when treated in this manner, large cracks frequently form, through which water readily penetrates to the brickwork, which is prevented from drying as rapidly as it otherwise would by the very impermeability of the rendering. The work done at the Station has already shown the greater efficiency of weaker porous mortars. With these, cracking does not take place to so serious an extent. Furthermore, although porous, such renderings have a higher suction than the wall, and, consequently, the water is not readily passed on and is also quickly dried out.

Very valuable work has also been carried out on the painting of plaster, water-proofing materials for brickwork, on the successful laying of composition floors, on the vibration of buildings, on the foundations of buildings, on the driving of concrete piles, on structural steel, on the heating of rooms and on the exclusion of the heat of the sun from buildings of various kinds. An instrument has been designed for use with model buildings by which the amount of sunlight which can enter any room in the building at any time of day or season of the year can be immediately deduced. Investigations have also been made which indicate the conditions under which ultra-violet window glasses may be profitably used. Measurements have been made of the rate of heat transmisaion through single and double glazing and of the mechanical strength of sheet and plate glass. Recently the Station has been asked to investigate the properties of glass walling blocks now being produced in this country Finally, very important work has been done on architectural acoustics and the fire-resistance of buildings.

New Method for Cleaning Buildings.

Turning to the work carried out in the past year, the Report refers to a new method for cleaning buildings. "Since ease of operation and absence of mechanical damage," the Report states, "are desirable characteristics in a cleaning process, and because plain water is the only known cleaning agent that can be used with complete assurance that it will not harm the stone, experiments have been undertaken to determine whether the efficiency of water as a cleaning agent can be improved by departing from the customary method, in which the operator works with hose and brush on the previously dry stone.

These experiments have given most promising results on very badly discoloured limestones. It is found that by directing a fine spray of water on the surface for a period depending on the nature and condition of the stone, the soot incrustations become so thoroughly softened that they can often be brushed off with a soft paint brush. A sample of Cotswold limestone, for instance, similar to stone in a building which had been cleaned, though not without difficulty, using caustic soda, was completely cleaned in this way after spraying for no more than half an hour. Weathered Caen stone was easily cleaned without causing the least damage to the tool marks after spraying for one hour. A dirty sample of Portland stone required spraying for two hours before all the dirt could be removed with ease, but the stone could have been cleaned at an earlier stage by using stiffer brushes.

Laboratory experiments have also been carried out which imitate the effect of the sulphur pollution of the atmosphere on building stones. In the first series of tests, samples were placed in a vessel and the air removed from the pores by means of a vacuum pump. Sulphur dioxide was then admitted until atmospheric pressure was restored, and finally water was allowed to enter the vessel until the stones were covered. After standing for five hours the specimens were removed and dried in an oven. This cycle of operations was repeated a number of times.

On sandstones the effect of this treatment was to produce a type of flaking similar to that which occurs in buildings. Skin formation very similar to that observed at the original surface of the weathered sandstone was produced after 13 cycles. After 18 cycles the skin flaked off and exposed the soft powdery surface underneath.

Similar experiments on samples of slate have indicated that it is possible to reproduce lamination in a slate of poor quality.

At the request of H.M. Office of Works the Clipsham stone supplied for the repair of the Houses of Parliament has been inspected at six-monthly intervals. These inspections have indicated that the system of control adopted at the quarries, in the masonry works, and on the site is instrumental in maintaining a high average level of quality.

Roofing Tiles.

A co-operative investigation of the factors which affect the efficiency of clay roofing tiles has been arranged at the request of the National Association of Roofing Tile Manufacturers. The work is planned to provide for a general investigation of the conditions which lead to the appearance of moisture on the underside of the roofs, whether by penetration through the tiles or by condensation of moisture, etc., and thus provide a basis for the development of better methods of testing the products.

The problem is to some extent less complex than the corresponding problem of the efficiency of brickwork, because tiles do not require a jointing material; in fact, "torching" is often found to be detrimental. Consequently, complications introduced in the study of brickwork by the necessity to consider the influence of choice of mortar and workmanship do not arise. To devise test methods is expected, therefore, to be correspondingly more simple than with bricks. It is only the properties of the tiles that require consideration and not of a combination of mortar and tiles.

On the other hand, the construction of the roof has an important bearing on its efficiency. Lack of ventilation in the roof space may lead to excessive condensation of moisture on the under surface of the tiles. If the tiles are insufficiently absorptive, or if they are very absorptive and are already saturated with rainwater, this condensed water may fall in drops from the surface, giving the impression that the tiles are highly permeable to rainwater.

Again, too low a pitch may result in the penetration of wind-blown rain, or it may reduce the durability of the tiles to a considerable extent. In an experiment at the Building Research Station selected tiles were exposed on specially constructed roofs at two different pitches. At an early date one type of tile gave indications of failing under frost action when laid at a low pitch of 30 deg., and is now in a seriously damaged condition. Similar tiles at a pitch of 60 deg. are still sound. The effects on the side having an easterly aspect have been more pronounced than on that having a westerly aspect. It is also noted that vegetable growth has developed to a considerable extent on the tiles with the lower pitch.

Noise in Buildings.

An interesting feature during the past year, the Report states, has been the requests from architects for advice on the design of new

* Report of the Building Research Board for the year 1936, published by H.M. Stationery Office, 4s. net.

buildings, having regard to the sound transmission problem.

The trend of experimental work increasingly supports the view that this problem is primarily one of planning. A certain degree of sound reduction is obtainable by structural precautions in most cases, but where severe conditions are imposed by the juxtaposition of noisy and quiet rooms it is not usually economical, nor in many instances practicable, to achieve complete satisfaction in this way.

While it is of great importance to give due attention to the question of noise in the early stages of planning, innumerable cases arise in which the utmost that can be done by this means is insufficient, and it is to meet this very urgent problem that experimental work is mainly directed. Work at the National Physical Laboratory has shown that the most promising method of dealing with the transmission of noise through floors is by the provision of a "floating floor," and experiments have been made with a "floating floor" consisting of a concrete slab insulated from the main structural floor by small pads of rubber.

If such a slab is cast on light shuttering of any type, laid on the rubber pads, there is always some danger of concrete running through the shutter joints and forming a solid bridging with the main floor unless special care is taken with the shuttering.

A method of construction has been evolved whereby the top slab is raised out of contact with the main floor after it has set so that no bridging is possible. By this particular method, also, the rubber supports may be changed, should this become desirable, without breaking the floating slab. A degree of insulation against impacts which might be considered reasonable in most residential buildings is afforded probably by a 2-in. slab, raised 1 in. from the main floor.

A number of tests have been done on false ceilings, some of which were supported on independent joists bearing on the walls and others were suspended from the structural floor by means of felt-lined clips. Both types, if reasonably heavy, gave a certain amount of added insulation, but no ceiling has yet been tried which is as good as the 2-in. floating slab described above.

A false ceiling can at best protect only the room in which it is placed, whereas a floating floor, by cutting off at its source the noise entering the main structure, acts as a protection to the whole building.

Colourings for Stucco.

At the present time there is an increasing demand for coloured stuccoes and renderings. For the colouring of buff, yellow, green and red stuccoes there exists a range of mineral pigments which are fast both to light and lime and can be used successfully. The production of a blue stucco has always been difficult. Ultramarine is not stable in contact with lime, although it can be used successfully in renderings, etc., exposed to the air. For use under water—as in swimming baths—where a blue rendering is often desired, it is not suitable. The use of crushed blue glass provides one method for obtaining a blue stucco but does not fulfil all the requirements.

A method of colouring stuccoes which is of quite a novel character has recently been tested at the Station. It consists in the use of sand, treated with a metallic oxide to produce a coloured skin, which is stated to be an integral part of the sand grains. The resistance of the coloured sand to alkalies and acids is such that it should be unaffected by the lime and alkalies in cement or by polluted town atmospheres, and there was no indication that the mechanical properties of cement with which it is used would be adversely affected.

National Federation of Specialists: Dinner.

The date of the annual banquet of the National Federation of Specialists and Sub-Contractors has been altered from November 1 to November 29, owing to the fact that on the former date the inaugural meeting of the R.I.B.A. takes place.

INQUIRY BUREAU

We are glad to give questions and answers, but cannot accept responsibility for contributed replies, especially on legal matters.

We do not undertake to reply to inquiries concerning proprietary materials.—ED.

QUESTIONS.

Squaring-up: Definition Required.

SIR,—I should be very much obliged if your readers would explain the term "squaring-up" for me. D. J. S.

Cleaning Down Masonry.

SIR,—Is there a method of cleaning down marble, stone and granite masonry which has become begrimed with age? We understand that there is a solution for this purpose, and should be glad if your readers could give details about it and its application. CHICHESTER.

ANSWERS.

Distemper or White Cement.

[ANSWER TO "SUPERVISION," AUGUST 6.]

SIR,—A white Portland cement can be used for interior work, and it is not necessary to prime the surface with oil paint before it finally sets, as is commonly done with Keene's cement. I would mention that if a white cement is to be used, there will be no object in painting the surface, but if it is required to do so, it is advisable to use one of the special synthetic paints formulated for application to concrete surfaces.

A. J. T. E.

Damp Wall: Cure Wanted.

[ANSWERS TO "W. F.," AUGUST 13.]

SIR,—I have noted the complaint of your correspondent "W. F.," and it is very evident that he has not arrived at the root cause of the dampness, and until this is achieved, I am afraid the difficulty will not be solved. For many years I have made a study of dampness, its causes and prevention; therefore my interest in this case.

There are, of course, many waterproofers on the market, and I suggest that one in particular * will answer all purposes with certain satisfactory results. J. H. WHYTE-HILLE.

SIR,—There are several materials available for effecting a permanent cure for the existing dampness or, at least, for preventing the penetration of rain into the brickwork wall. These include weather tiling, an adequate rendering of a good waterproofed cement slurry, liquid or solution, and tarring. Weather tiling may be far too expensive; cement rendering is not unreasonably expensive; tarring is rather unsightly. Proprietary waterproofing liquids and solutions, when correctly applied, are effective in most cases for a few years, though one well-known colourless liquid is definitely guaranteed for a minimum life of five years. One application of this preparation only is necessary, and its average covering capacity is 250 sq. ft. per gal. A certain proprietary slurry, however, provides one of the most economical means of waterproofing rough-cast walls. It also produces a very hard surface that will not flake nor powder away, and it is not affected by "green" cement. Mixed with ordinary cement, which can be tinted buff or red, the approximate cost for 1 cwt. and the proprietary material is 16s., which will cover from 150-180 sq. yds. For light shades of white, cream, etc., it is necessary to use white or tinted cement, and the cost of 1 cwt. of cement and the solution is approximately 22s. After cleaning down the rough-cast wall with a wire brush, well soak the wall surface before applying the slurry. The latter must not be applied during very wet weather, as heavy rain on the unset coating is deleterious. A. J. T. E.

[*The names of the proprietary materials mentioned in Mr. Whyte-Hille's and "A. J. T. E.'s replies will be forwarded to our correspondents upon request.—ED].

INTERNATIONAL CONFERENCE ON ACOUSTICS

THE first International Conference on Acoustics was held in Paris in July, under the auspices of the International Electrotechnical Commission (I.E.C.). Under the presidency of M. Duval, President of the French Electrotechnical Committee, some 60 delegates assembled from 13 countries, including the United States (Chairman, Dr. Harvey Fletcher), Germany (Chairman, Dr. Grutzmacher), and Great Britain (Chairman, Dr. G. W. C. Kaye, and Secretary, Mr. W. West). The proceedings were dealt with by five main committees: Vocabulary, fundamental units and methods of measurement (including noise meters), electro-acoustics, and noise abatement.

While substantial progress and agreement were reached in all the committees, chief interest centred on the questions of fundamental units and methods of measurement, and it is a source of gratification that the proposals eventually adopted agree in their entirety with the British Standards as given in the British glossary. Thanks in particular to the conciliatory attitude of the delegates of Germany and the United States, the "phon" and the "decibel" become international units.

The units and measurement committee also adopted a report of a sub-committee on objective noise meters, which, under the chairmanship of Dr. A. H. Davis, drew attention to the fact that certain meters on the market employing quadratic rectification and other characteristics, while capable of dealing with certain sounds, were quite inadequate to interpret in phons many types of impulsive sound, but that other meters employing "leaky peak rectification" were substantially reliable for a wide range of steady and impulsive sounds. It was agreed, however, that at the present juncture a specification could not be formulated for a "universal" noise meter which will measure on the phon scale every type of sound.

In the electro-acoustic committee, consideration was given to the standardisation of methods of testing microphones and loud-speakers, while the architectural acoustics committee (which was officered by Great Britain) discussed the different procedure adopted in various countries for measuring acoustic absorption coefficients by the reverberation method. The investigation of the transmission of air-borne and impact sounds in buildings was also dealt with. The noise-abatement committee contrasted the steps taken in different countries for reducing noise, and is to collate the experience gained.

At the final plenary meeting it was agreed that in future the work should be carried forward under the auspices of the Federation of National Standardising Bodies known as the International Standards Association, the I.E.C. actively collaborating.

Acquisition of Land (Assessment of Compensation) Act, 1919.

The Reference Committee for England and Wales, consisting of the Lord Chief Justice of England, the Master of the Rolls, and the President of the Chartered Surveyors' Institution, have appointed Sir Charles Gott, F.S.I., M.Inst.C.E., F.G.S., and Mr. Arthur Lloyd Thomas, M.B.E., F.S.I., to the panel of official arbitrators constituted under the above-mentioned Act. The present panel of official arbitrators consists of Mr. Hugh C. Webster, F.S.I., Mr. Francis J. Kirby, F.S.I., and Mr. Frank Hunt, C.V.O., F.S.I. Sir Charles Gott's appointment will take effect as from September 1, and Mr. Lloyd Thomas's as from September 20, from which dates Sir Charles Gott's official address will be 67a, New Street, Birmingham, and Mr. Lloyd Thomas's temporary address will be "The Grove," Pontypridd, South Wales.

REINFORCED BRICKWORK

DEVELOPMENT AND POTENTIALITIES*

ALTHOUGH construction in brick is traditional in this country, the majority of architects and engineers have so far ignored the possibilities of reinforced brickwork, which both research and full-scale construction in India, Japan, and, more recently, in North America, would seem to have shown to be as capable of accurate design and as easy to erect as reinforced concrete. Since brickwork provides its own surface finish, requiring negligible maintenance, reinforced brickwork starts with a clear advantage as a form of reinforced construction.

Briefly, reinforced brickwork consists of using brickwork to take compressive stresses, just as the concrete does in reinforced concrete. Similarly, tensile stresses are taken up by reinforcing rods placed in the joints or in grooves in purpose-made bricks, and, subject to the limitations set by the sizes and shapes of bricks, a reinforced brick structure can be designed very much as is one of reinforced concrete.

Although Sir Isambard Brunel demonstrated the possibilities of reinforced brickwork as far back as 1825, it was not until 1918 that systematic study and utilisation of this method of construction for earthquake resistant construction in India initiated its further development in the U.S.A., Japan and New Zealand, in which countries reinforced brickwork is now a recognised and approved mode of construction, based upon well-defined principles of design. Whilst limitations of space preclude reproduction of the full exposition of the design principles, which is given in the Clay Products Bureau Bulletin, No. 2, together with numerical examples and design tables, it would seem that, properly designed, it is capable of resisting both compressive and tensile stresses in the same way as does reinforced concrete within limitations, the character and degree of which can only be discovered by research and experiment followed by full-scale trial, as have been the case with reinforced concrete. The examples which are worked out suggest that surprisingly large spans can be achieved in lintels, beams, floor slabs and cantilevers, even when the maximum compressive stresses in the brickwork are kept down to the conservative limit of 200 lb. sq. in. (Japanese regulations permit compressive stresses up to 500 lb. sq. in., and in U.S.A. stresses up to 750 lb. sq. in. are adopted).

Factors in Structural Design.

From a study of the various reports which have been published in America, it would seem that the controlling factor in constructing reinforced brickwork is, as would be anticipated, the attainment of a bond between the brickface and the mortar adequate to sustain a reasonable amount of diagonal tension and shear stress. In this connection it is interesting to note that the first tests done in the programme of investigation of reinforced brickwork, recently launched by the Canadian Government, deals with the effect of certain physical properties of the brick, when jointed with commonly used mortars, upon the adhesion and shear strength of the resultant joint. In this Canadian investigation both stiff consistent mortars and a pourable grout were investigated. With the grout all types of brick developed a relatively high bond strength, whereas with the mortars, which contained a much lower percentage of water, the bond attained was found to be dependent on the absorption characteristics of the brick. Thus, whether laid wet or dry, low absorption bricks developed but a medium bond strength, and medium absorption bricks a high bond strength, whereas the bond strength was but low when bricks showing high absorption were laid dry, although an improved strength could be attained if part of the suction of the brick be killed by wetting it before applying the mortar. The great influence of the absorption properties of the brick on the shear strength is also shown in the Bureau of Standards Report on "Shear Tests of Reinforced Brick Masonry Beams." In these tests it was found that the shearing strengths were much greater when the bricks were wetted before laying than when laid dry. Both this report and the Canadian tests agreed that there is no direct relationship between shear strength and the compressive or transverse strength of the actual bricks.

Obviously, to develop maximum resistance to shear (i.e., the best bond strength) it is essential to obtain intimate contact over the whole of the interface between the brick and the mortar. If the suction of the brick be so high as to abstract, from the mortar in contact with the brick, water necessary for the proper chemical set of the mortar, then the chance of a proper bond—and hence adequate shear strength—is markedly reduced. Since it is mechanically more difficult to ensure intimate contact at all points when spreading mortars of stiff consistence over bricks, the much superior results attainable with easily flowing grout are quite understandable. Hence, although grouting may not be practicable in certain types of construction, *e.g.*, columns and walls, it is normal practice in reinforced brick slab and floor construction.

To further the attainment of intimate bond the addition of a plasticising agent in the form of slaked lime or lime putty to the mortar has been found useful. Such an admixture, besides making the mix much more workable and thereby facilitating placing, especially in the joints containing steel, has other advantages. All forms of slaked lime exercise to some degree a water-retaining capacity, so that their presence in a mortar mix will assist in retaining in that mix sufficient water to bring about the proper set of the cement component, and will thus operate against abnormal suction of the brick. Further, as is well known, cement-lime mortars exhibit less shrinkage on drying out than do cement mortars; hence the addition of lime will help to protect the bond against rupture by shrinkage. Finally, there is some evidence that lime slowly combines with the material of the brick itself, so that, in time, the bond improves.

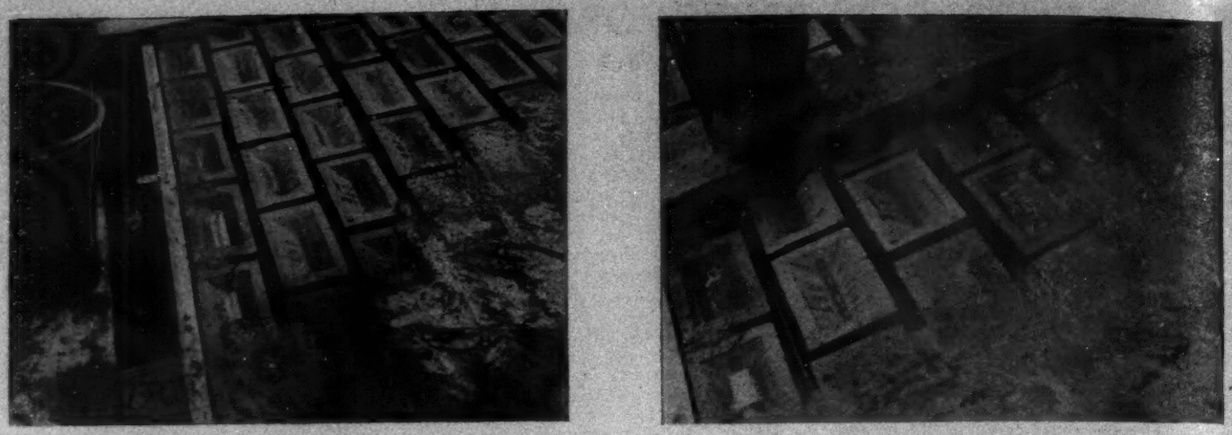
Another factor which will, in practice, affect the efficacy of the bond is the cleanliness of the brick surface, since the presence of a layer of brick dust will interfere with contact between mortar and brick. In reinforced concrete work this necessity is paralleled by the requirement that the aggregate shall be well washed and clean. It is worth while noting that, since the surface pores of second-hand bricks are already filled with set mortar which will not readily bond with fresh mortar, their use would seem inadvisable in reinforced brick construction.

Although the compressive (and transverse) strength of the individual bricks does not appear to be a major determinant as regards shear, the compressive strength of the combination—brick-mortar—*i.e.*, of the brickwork, is, of course, just as important in reinforced brickwork design as that of the concrete in reinforced concrete work.

Outside the data given in Building Research Special Report No. 22, there seems to be a dearth of up-to-date information on the compressive strength of British brickwork, and, in this connection, it is to be noted that, where shear reinforcement has to be introduced into reinforced brickwork, it is more convenient to have continuous joints to

A REINFORCED BRICK BALCONY UNDER CONSTRUCTION.
The balcony has a 4½-in. wall reinforced with vertical rods passing through holes in the bricks and with a strip of welded-steel mesh in the horizontal beds.
MESSRS. ARMSTRONG AND BAYNE, F. AND A.R.I.B.A., ARCHITECTS. MR. C. W. HAHANN, A.M.I.Struct.E., CONSULTING ENGINEER.

* Excerpts from "Reinforced Brickwork: A Survey of its Principles, Present State of Development and Potentialities." By L. W. Burridge. Clay Products Technical Bureau of Great Britain. Bulletin No. 2.



TWO VIEWS SHOWING THE LAYING OF THE TOP COURSES OF BRICKS ON THE FLAT IN A REINFORCED BRICK CANOPY.
[London Brick Company's Stand at the Building Exhibition, 1936.]
MR. JULIAN LEATHART, F.R.I.B.A., ARCHITECT. MR. HUGO FILIPPI, CONSULTING ENGINEER.

accommodate straight runs of steel, in which case cross-bonding is undesirable and the work is more conveniently designed and constructed in contiguous stretcher or header courses. Doubtless the effect of this departure from customary cross-bonding will receive attention in the investigation proposed by the Building Research Station.

There is one further aspect of this type of construction upon which little information seems to be available, namely, upon the depth of cover of the steel necessary to prevent corrosion. In reinforced brickwork moisture might conceivably gain access to the steel not only from the exposed face of the joints in which the reinforcement is embedded, but also, should the brick be somewhat porous, through the brick and thence across the mortar to the embedded steel. So long as the mortar is of a sufficiently rich character for it to be virtually impermeable, even in relatively thin layers, such qualms about corrosion may not arise. It is nevertheless felt that this is an aspect of reinforced brickwork which has so far not received the attention it merits, and may perhaps account, in part, for the neglect of this type of construction in Great Britain.

Advantages.

The advantages generally claimed for this type of construction may be summarised as follows :—

1. DESIGN.—Reinforced brickwork is equally as amenable as reinforced concrete to accurate design.

2. CONSTRUCTION.—(*a*) *Temporary Support.*—For horizontal construction, such as beams and slabs, only very simple formwork is necessary, and such formwork need not necessarily be watertight. For vertical work, such as columns and walls, no formwork is normally required.

(*b*) *Plant and Workmanship.*—No expensive equipment (which, when not in use, represents idle capital) is required, since reinforced brickwork can be erected with much the same plant as is normally used for ordinary brick construction.

According to American reports, bricklayers quickly accustom themselves to the technique of reinforced brickwork construction, and the speed of erection is not markedly lower than that of ordinary brickwork. Moreover, the departure from routine laying quickens their interest in the job, and therefore improves the standard of workmanship.

(*c*) *Curing.*—The conditions and time of curing normally adopted in concrete construction are directly applicable to reinforced brickwork, formwork, if any, being struck as soon as the cement has hardened sufficiently (3-14 days).

3. PERFORMANCE.—(*a*) The inclusion of reinforcement gives to reinforced brickwork the same high resistance to all types of stress as is exhibited by reinforced concrete, and therefore makes reinforced brickwork equally suitable for heavy load-bearing construction, as well as justifying its use where racking, vibratory or explosive stresses are likely to occur, *e.g.*, mining areas where marked subsidence occurs, buildings enclosing heavy machinery or explosive materials, walls where the aerial bomb menace is high, etc.

(*b*) The additional strength given to brickwork by the introduction of reinforcement will reduce the thickness of wall required to carry a given load and hence increase the available floor space. The dead load on foundations due to the brickwork will also be reduced. (N.B.—The average weight per cubic foot of reinforced brick is some 10 to 15 per cent. less than that of reinforced concrete.)

(*c*) *Fire and Thermal Resistance.*—It is to be expected that reinforced brickwork will exhibit the same unique resistance to fire hazards as is exhibited by ordinary brickwork. In his report on the Indian exploitation of reinforced brickwork, Brebner (*loc. cit.*) reports some tests which justify this expectation.

Similarly, since the bulk of the construction is brickwork, it is to be anticipated that the thermal resistance and thermal gradient through reinforced brickwork will be equally as satisfactory as is the case with ordinary brickwork.

(*d*) Since the major component of reinforced brickwork, viz., the bricks, normally exhibit little or no moisture or thermal movements, it is unlikely that reinforced brickwork structures will develop cracks due to such movements. This point is of especial value where reinforced brickwork lintels are used.

4. ÆSTHETIC APPEAL.—The finished work will present the same satisfying æsthetic appeal as does normal brickwork, and will therefore require no additional expenditure of time or thought on surface finish.

Possible Developments of Reinforced Brickwork.

It remains to suggest the lines along which reinforced brickwork construction is likely to develop. In addition to the application of this type of construction in those forms of beam of which the lintel and projecting (bay) window are examples, it is considered that the series of investigations likely to be carried out in Great Britain, together with a close study of actual reinforced brickwork construction and technique abroad, will lead to its utilisation in Great Britain for :—

Foundations, particularly where, owing to mining operations or peculiar geological conditions, there is danger of gross settlement or sliding, or where even slight movement is to be avoided, as in gas-holder foundations.

Wall construction in general, both to increase the load-bearing capacity of a given thickness of wall, and to confer enhanced stability against racking stresses such as may be set up by subsidence, by gross vibration due to seismic disturbances, intense traffic or heavy machinery or by blast effects, either industrial or military (explosion of bombs and shells in the vicinity). In addition, applied to :—

Panel walls, it would justify the modification of the building regulations of the various administrative authorities, such as the London County Council, etc., regarding the maximum permissible sizes of brickwork panels. Moreover :—

Partition walls, lightly reinforced, become self-supporting and hence, when inserted in upper stories over open spans, do not require to be carried on separate beams or girders. Such reinforced partition walls may be utilised as load-bearing members to carry a share of the floor loads, and may quite conceivably form a valuable contribution to modern problems of the acoustic insulation of rooms.

Columns can be designed in reinforced brickwork with load-bearing capacities comparable with those attainable with reinforced concrete and steel, exhibiting the further advantage of much greater resistance to fire.

Chimney stacks.—The introduction of reinforcement into factory chimneys will increase their stability both as regards settlement and wind pressure, and may justify considerable reduction in dead weight of brickwork.

Ceilings in reinforced brickwork, applied to top stories beneath pitched roofs, would act not only as additional fire-resistant barriers in terrace construction and as efficient thermal insulators in general construction, but would also serve as efficient stops to the types of light incendiary bombs, of which a single modern aeroplane can carry and discharge a very large number. The same construction utilised in all—

Floors, by interposing a highly efficient fire-resisting barrier to every room, and so confining an outbreak of fire to its source, would represent a valuable contribution to the protection of life against fire.

Constructional Data.

BRICKS.—(*a*) *Cleanliness.*—Bricks for reinforced brickwork should, like concrete aggregate, be kept clean; hence, on the job, they should be stacked on planks clear of the ground and away from sources of oil, etc., such as lorries, machinery, pumps, etc.

(*b*) *Adjustment of Suction.*—(1) Where mortar is used as a bonding material : To obtain optimum bond (and hence resistance to shear) between brick and mortar, the greater part of the suction (60-70 per cent.) should be satisfied by wetting before laying. If, as is the case with many types of ordinary brick, the 24-hour absorption be between 10-20 per cent., sprinkling, for five to seven minutes, of the dry stored bricks usually suffices. For large jobs absorption tests at 5, 15, 30, 60 minutes and 24 hours to determine the best duration of sprinkling are helpful. The bricks must not be soaked, and perfunctory dipping in a pail on the scaffold is

usually inadequate, and hence not to be recommended. With bricks of low porosity (less than 8 per cent.) little advantage will accrue from prolonging the sprinkling beyond the minute or so necessary to remove kiln dust, etc.

(2) Where grout is used as bonding material: In general, no sprinkling beyond that necessary to clean off kiln dust is necessary. If, however, both grout (for vertical joints) and mortar (for the horizontal joints) be used, as in two-course slab construction, then the suction must be adjusted to the mortar as in (1) above.

MORTAR.—For general reinforced brick purposes the following mortar is recommended:

Material.	Parts by volume.
Portland cement (either rapid-hardening or ordinary) ...	1
Slaked lime or lime putty ...	1-10th to 1-6th
Clean sand: graded, not uniform	3 to 3½

preferably mechanically mixed in half-hourly batches, otherwise scrupulously hand mixed with sufficient water to remove harsh working. All joints *must* be completely filled.

GROUT.—Prepare grout from mortar, as above by the admixture of sufficient water to give a pourable mix without segregation of the sand. Grouted joints should be filled up after allowing the original pour to settle for 15 minutes.

SHUTTERING.—(*a*) *Walls and Columns*—nil. (*b*) *Beams (and Lintels)*.—Normally no vertical shuttering is necessary, the beam being assembled on simple horizontal boarding, suitably shored, or on oiled plywood (or wallboard) sheets, supported so as not to deflect. (*c*) *Slabs and Floors* as for beams (*b*).

PLACING OF REINFORCEMENT.—(*a*) *In Horizontal Joints*.—Centring of the reinforcement in horizontal beds is simply achieved by placing stout nails at about 3-ft. intervals on the bricks below at right angles to the run of the steel. After placing the mortar on the bricks, the reinforcing rods are pushed down into the mortar to contact with the nails.

(*b*) *In Vertical Joints*.—After placing the bricks in position, and before filling the vertical joints with grout or mortar, light U-shaped metal wire loops are hung at 3-ft. to 4-ft. intervals in the joints to support the horizontal rods at the right depth and clear of the vertical faces of the bricks until the cementing material sets: at a later stage the top lugs of the loops can be bent up and cut off if desired. Where shear reinforcement has to be inserted, continuous joints are desirable to allow for the insertion of U or Z stirrups (slipped below the horizontal reinforcement) or the bent-up ends of the horizontal rods. Stirrups are bricked in (at designed distances) as the centre of the beam is approached: bent-up bars can be supported, until bricked in, by means of a slotted-board template.

CONSTRUCTION JOINTS. — Arrangements should always be made to complete beam construction up to and including the tensile reinforcement in one day, together with as much as possible of the superimposed brickwork near the supports, any such work as may have to be left being sloped down towards the centre of the beam (as in quoin erection in ordinary bricklaying), and thoroughly cleaned down next day with a wire brush and sprinkled for two to three minutes before further laying.

CURING AND STRIPPING OF SHUTTERING.—Damp-air curing should be secured by covering the work with sacking periodically damped. Loads should not be placed on fresh work. Where rapid-hardening (high early strength) cement has been used, the supports may usually be removed after three days; otherwise (i.e., with ordinary cements) shuttering should never be removed before the tenth day, and is preferably left until the fourteenth day, particularly on wide span work and where shear reinforcement is introduced.

*** Copies of the full text of this article can be obtained from 19, Hobart-place London, S.W.1., gratis.

NEW BUILDINGS IN LONDON

The Editor would be glad to receive information for publication under this heading from architects, builders, or other persons concerned. Items should be received at THE BUILDER *Office not later than Wednesday morning.*

ACTON. — EXTENSIONS.—And alterations, are to be made to the works in Wales Farm-road, W.3, of Messrs. Strachan (Successors), Ltd., coachbuilders. The contractor is Mr. E. Batten, 73, High-street, Ruislip. The architects are Messrs. Farebrother, Ellis and Co., 26, Dover-street, W.1.

ALDERSGATE-STREET.—OFFICES.—A site in Aldersgate-street and Bridgwater-place, E.C.1, is to be developed by a block of shops and offices. The contractors are Messrs. E. D. Winn and Co., Ltd., 36, Wilton-place, S.W.1. The architect is Mr. Gervase Bailey, F.R.I.B.A., King's-buildings, Smith-square, S.W.1.

ALDWYCH.—EXTENSION.—The contract for the extension in Houghton-street, W.C.2, of the London School of Economics and Political Science, for the Senate of the University of London, has been placed with Messrs. Thomas and Edge, Ltd., Greens End, Woolwich, S.E.18. The architects are Messrs. Trehearne and Norman, Preston and Co., Windsor House, Kingsway, W.C.2.

BARKINGSIDE.—BRANCH.—Messrs. Price's, Tailors, Ltd., Cardigan-crescent, Kirkstall-road, Leeds, propose to build branch shops and showrooms. Plans have been prepared by the company's architect, Mr. Philip S. B. Nicolle, L.R.I.B.A.

BERMONDSEY. — ALTERATIONS. — Messrs. Truman, Hanbury, Buxton and Co., Ltd., The Brewery, Brick-lane, E.1, are to have the "Rose and Crown" public-house, 68, Southwark Park-road, altered, from plans by Mr. A. E. Sewell, L.R.I.B.A., architect to the company. No contracts placed.

BERMONDSEY.—HOUSING.—The B.C. has approved specifications for the erection on the Arnolds estate of blocks Nos. 3, 5 and 8, of dwellings; on the Neckinger Mill site, block No. 2 (first portion), and dwellings on the Balaclava-road site.

BRENTFORD.—COTTAGES.—The Brentford and Chiswick T.C. are erecting cottages as firemen's quarters, and making alterations to their Brentford station, at £4,540.

BUCKINGHAM PALACE - ROAD. — PREMISES. — Mr. H. C. Constantine, F.R.I.B.A., 9, Bentinck-street, W.1, is the architect, and Messrs. Thomas and Edge, Ltd., 25, Greens End, Woolwich, S.E.18, are the builders, for the new premises now being erected on the sites of Nos. 56-62 and at 1-3, Lower Belgrave-street, S.W.1.

CAMDEN TOWN.—REBUILDING.—Messrs. Bowman Bros., Ltd., are to rebuild and enlarge their showrooms and stores in Camden High-street, N.W.1. The contract has been placed with Messrs. J. and J. Dean, Ltd., Ruckhold Works, Ruckhold-road, Leyton, E. The architects are Messrs. S. Clifford Tee and Gale, 50, Moorgate, E.C.2, the quantity surveyors being Messrs. Reynolds and Young, 150, Southampton-row, W.C.1.

CAMOMILE-STREET, E.—ALTERATIONS.—Are to be made to Nos. 16-18, for Messrs. Whyte, Ridsdale and Co., Ltd. The contractors are Messrs. Lincoln, Darby and Co., Ltd., Tudor House, High-street, Eltham, S.E.9.

COMMERCIAL-ROAD EAST. — ALTERATIONS.—Messrs. Stewart and Hendry, 4, Aldgate High-street, E.C.3, are the architects for alterations at "Hungerford Arms" public-house, at No. 240. No contracts settled.

EALING.—FLATS.—The T.C. are inviting tenders for 20 flats in three blocks at the junction of Ruislip-road and Perivale-lane. Mr. F. J. Forty, B.Sc., A.M.Inst.C.E., Borough Engineer, prepared the plans.

EASTCOTE.—HOUSES.—Plans submitted by Messrs. William Spencer, Ltd., 51, Station-road, North Harrow, for 68 houses and garages and 114 bungalows and garages, at Wentworth-drive, Mount Park-road, Sutton-close, and Middlepark-gardens, Eastcote, have been approved by the Ruislip-Northwood U.D.C.

FINCHLEY.—FLATS.—The B.C. has instructed the Borough Surveyor, Mr. Percival T. Harrison, 294, Regent's Park-road, N.3, to prepare plans for 36 flats on various sites.

FINSBURY.—CENTRE.—The B.C. has approved the expenditure of an additional sum of £12,184 in connection with the erection of a health centre, bringing the total estimated cost to £49,552.

FINSBURY.—EXTENSIONS.—The B.C. has recommended the tender of Messrs. Holland and Hannen and Cubitt's, Ltd., 1, Queen Anne's-gate, S.W.1, for the extension to the Ironmonger-row baths, at £50,233, in lieu of the previous tender. Messrs. A. W. S. and K. M. B. Cross, 45, New Bond-street, W.1, are the architects.

GREENFORD. — SHOPS. — Messrs. Price's, Tailors, Ltd., Cardigan-crescent, Kirkstall-road, Leeds, are to erect premises in Ruislip-road, consisting of 11 shops, with 11 maisonettes above. The contract has been placed with Messrs. Walker (Tooting), Ltd., 39, Defoe-road, S.W.19. The company's architect is Mr. Philip S. B. Nicolle, L.R.I.B.A.

GROSVENOR-STREET. — RECONSTRUCTION. —Mr. C. Sykes, A.R.I.B.A., 161, New Bond-street, W.1, is the architect, and Messrs. F. G. Minter, Ltd., Ferry-works, Putney, S.W.15, are the builders for the reconstruction of No. 8.

GROSVENOR-STREET. — BUILDING. — Messrs. Goodman-Price, Ltd., 38, Haggerston-road, E.8, are now demolishing No. 65, to make way for a new building to be erected from plans prepared by Mr. George Anag, F.R.I.B.A., 7, Great James-street, W.C.1.

GROSVENOR - STREET. — PREMISES. — Messrs. Wimperis, Simpson and Guthrie, 51, South Molton-street, W.1, are the architects for new premises to be erected on the site of No. 15. The old buildings have been demolished by Messrs. Willment Bros., Baltic-wharf, Waterloo Bridge, S.E.1.

HENDON.—FLATS, ETC.—Messrs. Baldwin (Finchley), Ltd., have acquired a site in Dollis-road and Holder's Hill-road, N.W., for eight shops, with 16 flats above. The plans have been prepared by Mr. B. Ewart Dixon, 94, High-street, Finchley, N.12.

HENDON. — ALTERATIONS. — The Central post office is to be altered for H.M.O.W. The building contract has been secured by Messrs. A. Bedford, Ltd., Regent's-avenue, Palmers Green, N.13.

HIGHBURY. — ALTERATIONS. — H.M.O.W. have placed a contract with Messrs. Higgs and Hill, Ltd., 14, Godliman-street, E.C.4, for alterations and additions to the Highbury sub-district office.

HOSIER-LANE, E.C.1.—WAREHOUSE.—The premises at Nos. 10-12 are to be rebuilt, the plans having been prepared by Mr. Joseph Hill, F.R.I.B.A., 124, Sloane-street, S.W.1. The contract has been placed with Messrs. Frank R. Freeman, Ltd., 31, Russell-square, W.C.1. The quantity surveyors are Messrs. Henry Riley and Son, 82, Victoria-street, S.W.1.

KINGSBURY.—SHOPS.—Mr. P. E. Snell proposes to erect a block of 20 shops, with 20 flats in the upper floors, in Edgware-road, N.W.9. Plans have been prepared by Messrs. Matthews and Son, 73, Tottenham Court-road, W.1.

KINGSBURY. — CLINIC. — The Wembley U.D.C. are inviting tenders for a maternity and child-welfare clinic in Stag-lane.

LEICESTER-SQUARE. — EXTENSIONS. — Messrs. Gee, Walker and Slater, Ltd., 3, Fitzmaurice-place, W.1, are now erecting extensions to the Automobile Association's premises at No. 47. The architect is Mr. Andrew Mather, Leicester-square-chambers, W.C.2.

MAIDA VALE.—FLATS.—Plans have been prepared for the development of the site at 1-21, Aberdeen-place, N.W., by the erection of flats and offices. The architect is Mr. Frank Scarlett, A.R.I.B.A., 5, Raymond-buildings, Gray's Inn, W.C.1.

NORTHOLT.—Library.—The Ealing T.C. has accepted the tender of Messrs. Cain and Co., 444, Hanworth-road, Hounslow, for a branch library in Whitton-avenue, at £4,363. The plans have been prepared by the Borough Surveyor, Mr. F. J. Forty.

OLD-STREET.—Adaptation.—No. 288 is to be adapted by Messrs. Killby and Gayford, Ltd., 87, Worship-street, E.C.2, as a branch post office, for H.M.O.W.

OXFORD-STREET.—Premises.—A contract has been placed with Messrs. Trollope and Colls, Ltd., 5, Coleman-street, E.C.2, in connection with a block of shops, showrooms and offices in Oxford-street, Balderton-street and Lumley-street, W.1. The new building has been designed by Messrs. Trehearne and Norman, Preston and Co., Windsor House, Kingsway, W.C.2.

PUTNEY.—Rebuilding.—The "Jolly Gardeners" public-house, at the corner of Lacy-road and West-place, is being rebuilt by Messrs. Simmons Bros., builders, 175, Upper Richmond-road, S.W.15. The demolition work is being carried out by the London Demolition Co., Ltd., London-road, Isleworth.

ST. PANCRAS.—Flats.—The B.C. are now inviting tenders for 95 working-class flats in Camden Park-road, N.W.1. The quantities are by Messrs. Waggett and Bradford, 25, Victoria-street, S.W.1, and the plans are by Mr. A. J. Thomas, 31a, Sloane-street, S.W.1.

SANDERSTEAD. — Extensions. — And alterations are to be made to All Saints' Church, for the Vicar and Wardens. Mr. J. B. Tolhurst, 47, Manor-road, Beckenham, is the architect, and Messrs. May and May, 9, New-square, Lincoln's Inn, W.C.2, the quantity surveyors. The contract has been placed with Messrs. James Longley and Co., Ltd., of Crawley.

SHEPHERD'S BUSH.—Drill Hall.—The City of London Territorial Army and Air Force Association, Finsbury Barracks, City-road, E.C.1, has acquired a site at the White City for erection of a drill-hall and anti-aircraft headquarters.

SLOANE-STREET. — Flats.—Messrs. John Willmott and Sons (Hornsey), Ltd., 40, Tottenham-lane, Hornsey, N.8, have secured the contract for the erection of flats on the site of No. 8, and in Pavilion-road. The architect is Mr. H. C. Wilkerson, L.R.I.B.A., 5, Duke-street, W.C.2. The site is being cleared by the London Demolition Co., Ltd., London-road, Isleworth.

SOUTHALL.—Extensions.—The T.C. has approved plans for an extension to the factory (goods inwards department) for the Associated Equipment Co., Ltd., Windmill-lane.

SOUTHALL.—Garage.—Plans have been approved by the T.C. for a garage at the junction of Rectory-road with Norwood-road for the Reliable Motor Co., 4, South-road. Messrs. Bostock and Hollins, 4, South-road, Southall, are the architects.

SOUTHWARK. — Shops.—The L.C.C. has agreed to insert in its next General Powers Bill a clause to enable the Southwark B.C. to build shops in Borough High-street. It is part of the Council's scheme for erecting municipal baths at a cost of £160,000.

STEPNEY. — Ballroom. — Mr. Morris Joseph, A.R.I.B.A., 47, Bloomsbury-square, W.C.1, is the architect for a ballroom to be erected at 49-52, Tredegar-square. No contract settled.

STEPNEY.—Rebuilding.—Messrs. Stewart and Hendry, 4, Aldgate High-street, E.C.3, are the architects for the rebuilding of the "New Gunboat" public-house, 106-7, St. George-street. Mr. George Barker, 50, New-road, E.1, is the contractor.

SURBITON.—Flats.—Messrs. 1934 Builders, Ltd., East-street, Epsom, are the contractors for a block of 10 shops and 20 flats on St. Mark's-hill. The architect is Mr. John N. Coleman, 12, The Broadway, Stoneleigh, Ewell.

TOTTENHAM.—Factory.—The T.C. has approved a revised interim proposal for a factory on the north side of Scotland Green. The scheme was submitted by Mr. H. M. Sperling.

TOTTENHAM. — Improvements.—Application has been made to the M.H. by the T.C. to the borrowing of £23,000 for alteration and improvement works at Page Green school, and the tenders of Messrs. Knight and Son, of Tottenham, of £2,995 for Bruce Castle Park convenience and £2,685 for Chestnuts recreation ground convenience have been accepted.

UPPER NORWOOD. — Extension. — The governors of the Royal Normal College for the Blind have under consideration a scheme for the extension of the college at Westow-hill, S.E.19, to involve an expenditure of about £30,000. The arrangements are in their early stages.

WALTHAMSTOW. — School. — For the erection of Handsworth-avenue senior school, the plans and specifications have been completed and passed to the Quantity Surveyor by the E.C.

WALTHAMSTOW. — Extension. — Mr. A. H. Middleton, 66, Great Portland-street, W.1, is the architect for a factory extension in Billet-road. The plans have been approved.

WALTHAMSTOW. — Extension. — The T.C. has received a plan from the Metropolitan Police Architect, Mr. G. Mackenzie Trench, F.R.I.B.A., New Scotland-yard, S.W.1, for extensions to the police station in Forest-road.

WANDSWORTH. — Nursery. — The B.C. are inviting tenders for the erection of a day nursery in the borough.

WANSTEAD. — Rebuilding.—Messrs. Taylor, Walker and Co., Ltd., Limehouse, E.14, have had plans prepared for the rebuilding and enlargement of their "Duke of Edinburgh" public-house. The contractors are Messrs. Bridge, Walker, Ltd., 91, Effra-road, Brixton, S.W.

WATFORD.—Extensions.—H.M.O.W. are inviting tenders for an extension to physics building, etc., at the building research station.

WEST DRAYTON. — Extensions.—And alterations are to be made to the Britannia Works, for Messrs. Wilkins, Campbell and Co., Ltd., wax manufacturers. Plans have been prepared by Mr. Max Hofler, F.R.I.B.A., 40, Broadway, S.W.1.

WHITECHAPEL.—Shops.—The Stepney B.C. has approved plans submitted by Messrs. Prices Tailors, Ltd., for shops and offices at 133-7, Whitechapel High-street, Mr. Philip Nicolle, L.R.I.B.A., Staff Architect.

PRISON BUILDING WORK

When Sir John Simon laid the foundation stone recently of the new Imperial Training School for Prison Officers at Wakefield, he gave official approval of a policy for employing convicts and inmates of our local prisons on building labour. This particular training school is to be built during the next few months, as far as possible with prison labour, on land facing the prison. Borstal lads, under the direction, of course, of expert foremen, have already completed the building of two boarding houses and a gymnasium at Lowdham Grange, in Nottinghamshire. At North Sea Camp, in Lincolnshire, the lads have built a hutted camp.

In all this prison building much mechanical apparatus is used. For example, according to the latest Report of the Prison Commissioners, tubular scaffolding, tower ladders and power-driven concrete mixers and pumps have been introduced. The amount of patent scaffolding used internally has been increased. A standard form of staging for gutter and roof repairs in high buildings has been evolved and tested at Wandsworth with satisfactory results.

All these aids to quicker work have been found necessary in order that the works programme can be carried out economically and mainly by prison labour. This appears to include a decreasing number of skilled and semi-skilled building tradesmen. For that reason, and owing to the lack of officers skilled in bricklaying and plumbing, it has been found necessary to use a considerably increasing number of free workmen, both to teach prisoners certain work and to perform that requiring much skill.

EXPORTS TO BELGIUM

CERTIFICATES OF ORIGIN.

The Department of Overseas Trade announce that, arising out of clearing and other agreements concluded by Belgium with certain European countries, the goods listed below (and many others of no interest to the building industry), when imported into Belgium and Luxembourg from the United Kingdom, must be accompanied by a certificate of origin. In the case of goods of United Kingdom origin, this certificate (the form of which is given in a circular issued by the Department) may be viséd by a Chamber of Commerce affiliated to the Association of British Chambers of Commerce, by the Federation of British Industries, or by the Belgian Chamber of Commerce in London, instead of by a Belgian Consul. A certificate of origin is not required for importations of a value of less than 100 francs:—

Emery, carborundum, pumice-stone, tripoli and other mineral substances for grinding, polishing or cleaning, rough, also granulated, washed or ground, but not put up for retail sale; heavy spar (natural sulphate of baryta, barytine), unworked, also ground; Iceland spar; and cryolith (fluoride of aluminium and sodium); magnesite (carbonate of magnesia, lemolite or dolomite) in the natural state; witherite (carbonate of baryta); marble (statuary and other) unworked, square or cut into rough sheets, not otherwise worked; ores; building and cabinet-makers' wood; pitwood poles, props, staddles, stays and other wood, not sawn, with or without bark, less than 75 cms. in circumference at the larger end; wood for making paper and wood fibre pulp; sawn wood; veneer sheets superimposed and glued; veneer sheets applied to other wood; backs and bottoms of seats, veneered or double-veneered; furniture; unspecified manufactures of alabaster, lava, marble or other stones, simply cut or sawn to smooth surfaces; fireproof bricks of all kinds; wares of faience; porcelain ware; wares of faience or porcelain, with metal fittings; tubes and pipes of glass; tinplate; "other" manufactures of cast iron; tools; tools for machine tools; manufactures of iron, steel or malleable cast iron; crude cast copper; stationary steam engines, pumps and other engines; machine tools; machines, engines and apparatus not specially tariffed; ball and roller bearings; separate parts for machines, etc.; dynamo-electric machines; electric lamps; electric measuring apparatus; telegraphic and telephonic apparatus; precision instruments, etc.; instruments for observation, etc.; artificial plastic materials with a base of casein, gelatine, starch, gum tragacanth, or other similar materials.

SLUM CLEARANCE AND RE-HOUSING

The most recent Ministry of Health figures showing the position of slum clearance and rehousing are summarised below:—

Clearance Areas and Orders.—During July local authorities declared areas comprising 4,760 houses representing the displacement of 19,446 persons, as compared with 4,747 houses and a displacement of 16,173 persons in June. The Orders submitted during July covered 4,998 houses and the displacement of 16,979 persons, as compared with 5,209 houses and the displacement of 19,270 persons in June. The Orders confirmed during July covered 4,792 houses and 20,555 persons, as compared with 5,067 houses and 21,932 persons in June. The total number of houses in confirmed Orders is now 151,597, involving the displacement of 649,611 persons.

Rehousing Progress.—The latest available figures are those for June. At the end of that month there were 64,108 houses under construction, as compared with 61,954 at the end of May and 60,326 at the end of April; 5,857 houses were completed during June, as compared with 5,904 during May and 6,269 during April. New houses approved during July numbered 7,379, as compared with 8,135 in June and 6,361 in May.

NEW CINEMAS

BLACKPOOL. — Mr. Harry Weedon, A.R.I.B.A., 84, Colmore-row, Birmingham, and 7, Park-lane, London, W.1, is the architect for the Odeon cinema to be erected in Dickson-road.

DEPTFORD.—The Odeon Theatres, Ltd., Cornhill House, Bennett's Hill, Birmingham, have placed a contract with Messrs. James Watt (Catford), Ltd., 1, Central-parade, Catford, S.E., for the erection of a cinema at the corner of the Broadway and Church-street. The architect is Mr. George Coles, F.R.I.B.A., 40, Craven-street, W.C.2.

GOVAN.—The Caledon Pictures, Ltd., 21, Blythswood-square, Glasgow, has under consideration the rebuilding of the frontage of the "Lyceum" cinema, in Govan-road, together with interior alterations.

GRAYS.—Messrs. Union Cinemas, Ltd., Union House, Regent-street, S.W.1, have acquired a site for the erection of a cinema, which will include a café-restaurant. Plans are in course of preparation, under the supervision of the company's Director of Construction, Mr. Leslie H. Kemp, A.R.I.B.A., Jubilee House, Oxford-street, W.1.

HALESOWEN.—The contract for the "Lyttleton" cinema, Hagley-road, has been placed with Mr. J. Felton, Dudley, and work has commenced on the site. The architect is Mr. C. Edmund Wilford, A.R.I.B.A., Eagle House, Jermyn-street, S.W.1.

HAYLING ISLAND.—A new Midlands circuit, with which Mr. Benjamin Vale, of the "Regal" cinema, Atherstone, is connected, has in view the erection of a cinema to be called the "Regal." Plans have been prepared by Mr. Harold S. Scott, A.R.I.B.A., King's Court, Colmore-row, Birmingham.

NEWCASTLE-ON-TYNE. — The contract for the erection of a cinema in St. Anthony's-road has been placed with Messrs. Gordon, Durham and Co., Moor-lane, Boldon, Durham. Messrs. A. H. Fennell and Corking, 16, West-street, Gateshead, have prepared plans.

ROTHESAY.—The Palace Cinemas Co., Ltd., 18, East Princess-street, has accepted the tender of Messrs. Robert Pert and Sons, Lower Balmain-road, Montrose, for the erection of a cinema in Argyle-street. The architect is Mr. Alexander Cattanach, The Laurels, Kingussie.

STROOD.—Messrs. Union Cinemas, Ltd., Union House, Regent-street, S.W.1, have acquired a site for the erection of a cinema and café-restaurant. Plans are to be prepared under the direction of the company's Director of Construction, Mr. Leslie H. Kemp.

UPPER NORWOOD.—Plans are in hand for a scheme of reconstruction and addition to the "Albany" cinema. The architect is Mr. C. Edmund Wilford, A.R.I.B.A., Eagle House, Jermyn-street, S.W.1.

UTTOXETER.—Messrs. Union Cinemas, Ltd, 15, Regent-street, S.W.1, propose the erection of a cinema.

WALTON-ON-THAMES.—Messrs. W. F. Blay, Ltd., have secured the building contract for a cinema, café and car park to be erected in New Zealand-avenue. The architect is Mr. C. Edmund Wilford, A.R.I.B.A., Eagle House, Jermyn-street, S.W.1.

WATCHET (SOMERSET).—A local syndicate proposes to erect a small cinema. Plans have been prepared by Mr. W. H. Watkins, F.R.I.B.A., Sun Buildings, Clare-street, Bristol. No contracts let.

An Architectural Appointment.

Mr. P. B. Haswell, B.Arch (Liverpool), A.R.I.B.A., architect to Middlesbrough Education Committee, has received a similar appointment at Leeds. At Middlesbrough he was responsible for the Beechwood School, opened in 1934; the Brambles Estate School, opened in 1935; and alterations to Acklam Hall and other schools.

CONTRACTS OPEN

For some contracts still open, but not included in this list, see previous issues. Those with an asterisk are advertised in this number. Certain conditions beyond those given in the following information are imposed in some cases, such as that advertisers do not bind themselves to accept the lowest or any tender, that a fair wages clause shall be observed, that no allowance will be made for tenders; and that deposits are returned on receipt of a bona-fide tender, unless stated to the contrary.

The date given is the latest date when the tender, or the names of those willing to submit tenders, may be sent in, the name and address at the end is the person from whom or place where quantities, forms of tender, etc., may be obtained.

Following is a list of abbreviations:—Borough Surveyor, B.S.; Borough Engineer, B.E.; District Surveyor, D.S.; Town Clerk, T.C.; County Engineer, C.E.; County Surveyor, C.S.; Surveyor, S.; Engineer, E.

BUILDING, PAINTING, ELECTRIC LIGHTING, HEATING, &c.

AUGUST 23.

Amesbury.—Houses.—14, at Durrington, for R.D.C. R. W. H. Vallis, Phœnix-bldgs., Salisbury. Dep. £2 2s.

Carlow.—Houses.—44, at Tinnahuick, for Board of Health and Public Assistance. W. N. G. Douglas, Carlow. Dep. £5 5s.

Chapel.—Houses.—20, for Fife C.C. J. Gentles & Son, surveyors, Central-chambs., Kirkcaldy. Dep. £1 1s.

Dundee.—Wall.—Balustrade wall at parking space at south entrance to main block at Maryfield hospital, for T.C. David B. M'Lay, City Architect, 21, City-sq.

Glasgow.—Telephone Exchange.—At Barlock-st., for H.M.O.W. Architect, H.M. Office of Works, 122, George-st., Edinburgh. Dep. £1 1s.

Huddersfield.—Residence.—At St. Luke's Hospital, for T.C. B.E. and S.

Leeds.—Operating Theatre, etc.—And electrical and massage department at St. James's Hospital, for T.C. Kitson, Parish, Ledgard & Pyman, architects, Vicar-la. Dep. £2 2s.

Liskeard.—Alterations.—And additions to two houses at East Taphouse, for C. C. Tambiyn; to house at Charaton Cross, Pensilva, for C. Gilbert; and to premises at Dobwalls, Liskeard, for E. Henwood. E. C. Higman, L.R.I.B.A., chartered architect, Barras-st.

Llandudno Junction.—Conveniences.—For Conway T.C. A. L. Ralphes, T.C.

Melksham.—Houses.—6 pairs, at Cray's housing estate, for U.D.C. K. P. Pearce, Town S. Dep. £1 1s.

***Middlesex.**—Conversion.—Of Shenleybury House at Middlesex Colony, Shenley, for use as a hostel, for C.C. County Architect, 10, Gt. George-st., Westminster, S.W.1. Dep. £2 2s.

Portinscale.—House.—For R. Coward. P. M. Hope, L.R.I.B.A., chartered architect, Keswick.

Radcliffe.—Installation.—Of electric light at covered market, for T.C. B.S.

Rickinghall.—Retaining Wall.—At churchyard, for West Suffolk C.C. E. H. Bond, C.S., Shire Hall, Bury St. Edmund's.

Runcorn.—Houses.—2, at Primrose-ln., Alvanley, for R.D.C. J. O. Hunter, Castle-pk., Frodsham, via Warrington. Dep. £1 1s.

Taunton.—Houses.—32 2-roomed dwellings at Leycroft-rd., for T.C. Ivor F. Shellard, B.E. and S. Dep. £2 2s.

Tredegar. — Houses. — 30 houses, for U.D.C. W. Edgar Jones, S. Dep. £2.

Warsop.—Disinfector, Stores, etc.—At Burns-ln. for U.D.C. Vallance & Westwick, White Hart chambs., Mansfield. Dep. £2.

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Wembley.—Clinic.—Maternity and child welfare clinic, Stag-ln., Kingsbury, for U.D.C. Treasurer, 117a, High-rd. Dep. £2 2s.

Worcester.—Demolition.—Park-rd. Mews, Kilburn, N.W.6, Nos. 1-10 inclusive; Alpha-pl., North, Kilburn, N.W.6; Alpha-pl. North, Nos. 1-24, inclusive; Newton-mews, Nos. 1, 2 and 3; and Canterbury-rd., Nos. 23-37 (odd numbers); for T.C. F. Wayman Brown, A.M.Inst.C.E., B.E.

Windsor.—Fencing.—For T.C. F. N. McRae, A.M.I.C.E., B.E. and S.

Worcester.—School.—At Blackminster, Evesham, for County E.C. A. V. Rowe, County Architect, 38, Foregate-st., Worcester.

Worksop.—External Painting.—Of various houses, for R.D.C. W. Flint, S.

Worksop.—Boundary Wall.—For R.D.C. W. Flint, S.

AUGUST 24.

Armagh.—Alterations.—Improvements and repairs at H.M. Prison, Armagh, for Government of Northern Ireland. Secretary, Ministry of Finance (Room 128), May-st., Belfast.

Aylestone (Leicester). — Telephone Exchange.—For H.M.O.W. Room 66D, Third Floor, H.M. Office of Works, London, S.W.1. Dep. £1.

Bristol.—Boiler House.—At Fishponds Mental Hospital, for Mental Hospital Committee of Corporation. Bernard & Son, quantity surveyors 26, Orchard-st. Dep. £2 2s.

Chelmsford. — Installation. — Of low-pressure hot water heating and electric lighting power at the Moulsham senior, junior and infants' schools, Prince's-rd., for T.C. H. W. Allardyce, architect, Clock House-chambs., Barking. Dep. £5.

Chelmsford.—Cottages.—Two pairs, and one pair of bungalows, at Good Easter, for R.D.C. S. Dep. £2.

Chelmsford.—Convenience.—In Market-pl., High-st., Ingatestone, for R.D.C. E. & S. Dep. £2.

Chichester.—Extensions.—To Isolation Hospital, for T.C. F. C. Nash, City Sanitary Inspector. Dep £5 5s.

***Cosby.**—Cottages.—48, on land adjoining Croft-rd., for the Land Settlement Association, Ltd. Secretary, Broadway-bldgs, Broadway, Westminster, S.W.1. Dep. £2 2s.

Hindley.—Heating.—Of extensions to clinic, Liverpool-rd., for U.D.C. O. P. Abbott, S.

Louth (Lincs). — Post Office Garage. — For H.M.O.W. Room 66D, Third Floor, H.M. Office of Works, London, S.W.1. Dep. £1.

Menai Bridge.—Houses.—14, at Well-st., for U.D.C. W. Owen, Architect and S.

Penistone.—Houses.—16, at Roper-ln., Thurgoland, nr Sheffield, for R.D.C. Lunn, Heppenstall & Lunn, architects, Milnsbridge, Huddersfield. Dep. £2.

Prestonpans.—Houses.—54, at Back-rd. site, for T.C. R. & A. K. Smith, surveyors, 4, Porres-st., Edinburgh, 3.

Stone.—Houses.—44, in 4 contracts, for U.D.C G. S. Challacombe, E. and S. Dep. £3 3s.

AUGUST 25.

Billingham.—Houses.—40, at Fort Clarence, for U.D.C. Kitching & Co., architects, 21, Albert-rd., Middlesbrough.

Border.—Conversion.—Of premises at Swan-st., Longtown, into garage and store, for R.D.C. Housing Officer, 5-7, Victoria-pl., Carlisle.

***Cardiff.**—Construction.—Of underground car park, south side of Wood-st., for T.C.

Clitheroe.—Painting.—External, of houses in Faraday-av. and Wilkin-st., for T.C. B.E. and S.

Colchester.—Depot.—Highways depot, Catchpool-rd., for T.C. Harold Collins, B.E. Dep. £2 2s.

Cookstown.—Painting.—Distempering, etc., at Orritor, Sandholes and Toberlane P.E. Schools, for Regional E.C. A. M. Brennen, Burn-rd.

Darlington.—Garages.—Slater's work at new garages, etc., Hundens Store-yd., Haughton-rd., for T.C. B.S. Dep. £1 1s.

Deben.—Houses.—14, at Tunstall; 12, at Witnesham; and two, at Wickham Market; for R.D.C. S. Dep. £2 2s.

Dursley (Glos.).—Houses.—36, on Cam Housing-Draycott site, for R.D.C. Clerk. Dep. £1 1s

Honley. — Houses. — 34, in Bradshaw-rd. and Meltham-rd., for U.D.C. P. N. Brown, architect, Hollowgate, Holmfirth Dep. £1 1s.

Liverpool.—Police Training School.—And mounted police headquarters and residences, Allerton, for T.C. Land Steward and S. Dep. £2 2s.

Marshland.—Painting.—Exterior of houses in various parishes, for R.D.C. J. T. Dewhurst, S., Harps Hall, Walton Highway, Wisbech.

Newcastle-upon-Tyne.—Alterations.—In conversion of block "D" at General Hospital for T.C. City Architect, 18, Cloth-market. Dep. £1 1s.

Newcastle-on-Tyne.—Installation.—At main children's block at general hospital of bed lift and electric lighting, for T.C. City Architect, 18, Cloth Market.

Southwick.—Painting.—External of 129 houses and flats, for U.D.C. S. Dep. £1 1s.

AUGUST 25.

Ahord (Lincs).—Houses.—20, on Willoughby-rd. housing site, for U.D.C. C. Dep. £2 2s.

Castle Donington. — Houses. — 30 houses, roads, sewers, etc., at The Barroon, for R.D.C. Wm. A. Robertson, F.S.I., Kegworth, nr. Derby. Dep. £5 5s.

Cornwall.—Remodelling.—And additions to West Cornwall Miners' and Women's Hospital, Redruth. E. Pope, Hon. Secretary. Dep. £2 2s.

Crediton.—Houses.—4, at Sandford, for R.D.C. Mr. Cheil, "Rosemont," Union-terr.

Exeter.—Alterations.—And extensions to hostel at St. David's-hill, for G.W. Rly. Co. Divisional Engineer, Taunton Station. Dep. £2 2s.

Hyde.—Alterations.—And additions, to administration block, at borough hospital, for T.C. B.S.

Liverpool.—Sub-station.—In Pilch-ln., Roby, for T.C. Land Steward and Surveyor.

London.—Pithead Baths.—At 3 collieries, for Miners' Welfare Committee. Secretary, Romney House, Marsham-st., S.W.1.

Luton.—Rebuilding.—Of and additions to concert hall of High Town Club, Oxen-rd. Secretary, High Town Club, Oxen-rd.

Oldham.—Painting.—And decorating of interior of offices at Walsall depot, for C.B. J. F. Richards, General Manager and E., Walsall Depot.

Potters Bar.—Alterations.—To Oakmere House, High-st., Potters Bar, for U.D.C. E. Carr, E. and S. Dep. £1.

St. Austell.—Convenience.—At St. Columb-rd., St Columb Major, for R.D.C. E. F. L. Danbury, clerk, 1, High Cross-st. Dep. £1 1s.

St. Faith's and Aylsham. — Erection. — Of 46 houses and 8 bungalows, for R.D.C. E. R. Larner, surveyor. Dep. £1 1s.

✱**Warwick.**—Erection.—Of Rugby College of Technology and Arts, for C.C. County Architect. Dep. £2 2s.

AUGUST 27.

Ballymena.—Alterations.—And additions, internal and external painting, and internal cleaning works, at Post Office, for Goverment of Northern Ireland. Secretary, Ministry of Finance (Room 128), May-st., Belfast.

Dungarvan.—Houses.—78 4-roomed at, Mitchel-st. and St. Thomas-st. (clearance area), Dungarvan, and development works, including new roads, paths, sewers, water mains, etc.; also 61 houses at Gallowshill, Dungarvan, and development works, for U.D.C. William O'Meara, T.C. Dep. £4 4s. each.

Edinburgh.—Demolition.—Of Old Sheriff Court House, George IV Bridge, for H.M.O.W. Architect, 122, George-st. Dep. £1 1s.

Gwyrfai.—Houses.—Deiniolen, 135; Llanberis, 60; Cwmygio, 24; L'anrog, 19; Waenfawr, 12; Capel Ucha, Clynnog, 9; Tailon, Clynnog, 6; Nantile, 5, for R.D.C. D. H. Roberts, L.R.I.B.A., 22, Castle-sq., Caernarvon. Dep. £2.

Ireland.—Houses.—7, and 7 outoffices, Carrontlieve, Glengollen Demesne and Mogherbeg, adjoining main road midway between Buncrana and Derry; 8, and 7 outoffices, Rath and Boggyheary, situated at Kilsallaghan; 4, and 4 outoffices, Ferganstown, about 2 miles east of Navan; 2, and 3 outoffices, Johnstown, situated at Enfield; and 7, and 6 outoffices, Bodeen, about 2 miles north-west of Ratoath, for Irish Land Commission. M. Deegan, secretary, Upper Merrion-st., Dublin. Dep. £1.

Manchester.—Fencing.—Wrought-iron, for T.C. H. C. Lamb, Chief E. and Manager. Dep. £1 1s.

✱**Middlesbrough.**—Installation.—Of electric lighting and power at Kirby secondary school, for E.C. Director of Education. Dep. £2 2s.

Near Hesket-New-Market.—Repairs.—At Scalerigg House Farm, for Cumberland C.C. H. Haughan, A.R.I.B.A., County Architect, 4, Alfred-st. North, Carlisle.

Peterborough.—Greenhouse.—And frames at park, for T.C. City E. Dep. £2 2s.

Sunderland. — Lodge. — And gates at Borough Mental Hospital, Ryhope, for T.C. Wm. & T. R. Milburn, architects, 17, Fawcett-st. Dep. £2 2s.

AUGUST 28.

Billingham.—Reslating.—And retiling of roofs of houses on Chiltons-ln. and Clarence-rd. estates, for U.D.C. Jno. Whitehead, clerk, Council Offices, Haverton Hill.

Brighton.—Staircases.—Two fire escape staircases, including all builders' work, to "J" block, Elmgrove Home, Elm-grove, for C.B. B.E. & S.

Carmarthen. — Demolition. — Of old jail, governor's house, etc., on site of new County Buildings, for C.C. Percy Thomas, architect, 10, Cathedral-rd., Cardiff. Dep. £2 2s.

Chester.—Houses.—14, at Wimboldsley Trafford, for R.D.C. A. J. Hayton, architect, 22, Newgate-st. Dep. £2 2s.

Coventry.—Extension.—Steel-framed and sheeted extension of Harnall-ln. East bus garage, for T.C. R. A. Fearnley, General Manager and Engineer, Harnall-ln. East. Dep. £2 2s.

Glamorgan.—Cottages.—2 police cottages at Barry Island, and police station and cottage at Pontardulais, for C.C. D. J. Parry, Deputy Clerk of C.C., Cardiff.

Harrogate.—Clinic.—At District General Hospital, for West Riding C.C. West Riding Architect, County Hall, Wakefield.

Heston and Isleworth. — Filtration Plant. — At public swimming baths, on the Andamans, New Heston-rd., for T.C. J. G. Carey, B.S., Hounslow. Dep. £2 2s.

Northampton. — Installation. — Of heating and domestic hot-water at Bective School, for E.C. Keightley Cobb, L.R.I.B.A., 46, Hazelwood-rd. Dep. £2 2s.

Penistone.—Painting.—And other repairs of 84 houses on Cubley housing scheme, for U.D.C. J. A. Wainwright, clerk, Housing Committee.

Ross-on-Wye. — Houses. — 56, on Three Crosses site, for U.D.C. F. E. C. Davoll, Gloucester-rd Dep. £2 2s.

Spilsby.—Cottages.—For R.D.C. J. E. Bolt, S. Dep. £1 1s.

Stafford.—Houses.—20, on Tillington estate, and 6, in South Walls, for T.C. W. Plant, B.E. Dep. £2 2s.

Stockton-on-Tees.—Painting.—Railings at Blue Hall recreation ground and round open spaces at Norton, etc.; wire netting round tennis courts at Newham Grange-park; and interior painting of three greenhouses, at Ropner Park; for T.C. B.C.

Teignmouth.—Houses.—(1) Roads and sewers, and (2) erection of 50 houses on site adjoining Mill-ln., for U.D.C. E. and S. Dep. £2.

Wellington.—Painting.—External, of 52 houses, for R.D.C. E. Waller, Building Surveyor, North-st.

Wells.—Houses, 8, North Wootton; 6, Walton; 10, Wookey; for R.D.C. Harold N. Alves, architect, 27, High-st., Glastonbury. Dep. £2 2s.

Wigston.—Houses.—44, in Manor-st., for U.D.C. G. F. Stacey, E. and S. Dep. £2 2s.

AUGUST 30.

Basford.—Wiring.—Of 36 houses in Brinsley, for T.C. J. J. Ellis, E. and S., Rock House, Stockhill-ln. Dep. £2 2s.

Bingley.—Decorations.—To public baths, for U.D.C. Architect to Council.

Bishop's Castle.—Houses.—5 pairs on Pike Meadow, for T.C. B.S.

Bishop's Stortford.—Wiring.—Installation of electric lighting wiring at 130 houses on sites, London-rd., Dunmow-rd. and Apton-rd., for U.D.C. S.

✱**Blackpool.**—Fire-resisting Floors.—Roofs, concrete encasures to steel beams, etc., at Claremont swimming bath, for T.C. B.S.

Cambridge. — Alterations. — And additions to Cherry Hinton Schools, for T.C. B.S. Dep. £2 2s.

Chelmsford.—Painting.—Of cattle pens, roof steelwork and sale ring at Cattle Market, for T.C. Vincent J. Willis, B.E. & S. Dep. £1 1s.

Chipping Sodbury.—Houses.—And roads on Park-ln., Frampton Cotterell, and Watleys End, Winterbourne housing sites, for R.D.C. H. C. James, Housing Supervisor. Dep. £1.

Croydon.—Painting.—External, of 52 semi-detached houses and 24 dwellings, in blocks of six, on Corporation's housing estates, for C.B. Borough Valuer, 10, Wellesley-rd. Dep. £1 1s.

Devizes.—Painting.—External, of 92 cottages in various parishes, for R.D.C. P. R. Trapp, clerk, Maryport-cham.

✱**Erith.**—Additions.—To Bedonwell Hill Junior School, Belvedere, for U.D.C. E. and S. Dep. £1 1s.

Harrogate.—Alterations.—And additions, to Starbeck council school, for T.C. L. H. Clarke, B.E. & S.

Hemsworth. — Houses. — 90, on Tombridge-cres. No. 2 housing estate, for U.D.C. A. Wright, clerk. Dep. £2 2s.

Kearsley.—Houses.—36, and roads, footpaths and sewers on Hulme-rd. (Stoneclough) site, for U.D.C. J. F. Moyse, S. Dep. £2.

Lancaster.—Installation.—Of electricity at baths, Kingsway, for T.C. Frederick Hill, City E. and S.

Lancaster.—Installation.—Of electricity in houses on Scotsforth housing estate and completion of partly wired houses on Halton-rd. housing estate, for T.C. Frederick Hill, City E. and S. Dep. £1 1s.

Leeds.—Houses.—Flats and garages on Halton Moor housing estate, for T.C. T.C., Room 57, Civic Hall. Dep. £2 each.

Little Lever.—Houses.—34, on School-st. housing site, for U.D.C. T. Grant, S. Dep. £2 2s.

Newcastle-upon-Tyne.—Sub-station.—In Welbeck-rd., for T.C. City Architect, 18, Cloth-market. Dep. £1 1s.

Northampton. — Convenience. — At Towcester-rd., for T.C. B.E. Dep. £2 2s.

✱**Peterborough.**—Installation.—Of heating, hot and cold water, steam and condense services at Public Assistance Institution, for C.C. Clerk. Dep. £5 5s.

Plymouth.—Corridor.—Covered corridor between City Engineer's Department and offices south of Guildhall; removal of existing gangway and construction of new exit gangway at rear of Guildhall; and painting, etc., at Central police court and offices, Greenbank; for T.C. City Architect.

Portsmouth.—Reconstruction.—Of slipway at shipbuilding yard, Inner Camber, for T.C. City E. Dep £2 2s.

Roderstone, nr. Newport.—School.—At High Cross, for Monmouthshire E.C. Colin L. Jones, L.R.I.B.A., County Hall, Newport, Mon. Dep. £5 5s.

St. Ives (Hunts).—Painting.—Of houses in various parishes, for R.D.C. W. A. Lea, F.R.I.B.A., 4, Market-hill, Huntingdon.

Selby.—Installation.—Of electric lighting and low-pressure hot-water apparatus at girls' high school, for West Riding C.C. Education Officer, Wakefield.

Swansea.—Railings.—Wrought-iron railings and gates at Church-st. and Calvert-st. widening at St. Mary's Church. J. R. Heath, B.E. and S.

Swansea.—Electrical Lighting, etc.—At new junior school (block No. 2), at Gors-rd., Cockett, for T.C. Borough Architect. Dep. £2.

Willesden.—Repairs.—63, Granville-rd., N.W.6; 65, Granville-rd., N.W.6; and 6, Victor-rd., N.W.10; for T. C. F. Wayman Brown, A.M.Inst.C.E., B.E. & S.

Witham.—Bungalows.—At Cock's Farm housing estate, for U.D.C. S. Dep. £1 1s.

York.—Roof.—Over Sheep Market, for T.C. Chas. J. Minter, City E.

York.—Alterations.—To pens in Cattle Market, for T.C. Chas. J. Minter, City E.

Yorkshire.—School.—At Earby; extensions at Maltby Grammar School; extensions at North Emsall, Harewood-ln. school; and installation of hot water apparatus and electric lighting at Thorne Moorends infants' school, for West Riding C.C. Education Officer, County Hall, Wakefield.

AUGUST 31.

Basup.—House.—Office and conveniences at cemetery, for T.C. H. Guffogg, B.E. Dep. £2 2s.

Banstead.—Decorations.—To 42 houses (Nos. 1-39 and Nos. 8-50), Lambert-rd., for U.D.C. S.

Bradbury. — School. — At Harrytown-ln., for Cheshire C.C. F. Anstead Browne, F.R.I.B.A., County Architect, The Castle, Chester. Dep. £2 2s.

Brighton.—Painting.—And repairs at Elm-gr. Home and Municipal Hospital, for T.C. B.E. and S. Dep. £1 1s.

Burton-upon-Trent.—Mortuary.—At Belvedere-rd., for T.C. B.S.

Freshwater.—Fire Station.—For Isle of Wight R.D.C. E. L. Smith, architect, High-st., Newport.

Neath.—Houses.—40, with road works and sewers, at rear of Mary-st., Seven Sisters; also 9, at Empire-av. and Parish-rd., Cwmgwrach, for R.D.C. J. T. Jones, E., 13, Orchard-st., Neath. Dep. £2 2s.

Oxford.—Erection.—Of casual ward at Langford-pl., Begbroke, Oxon, for T.C. City Estates Surveyor. Dep. £2 2s.

Penrith.—Alterations.—And additions to Grammar School, R. Morton Rigg, L.R.I.B.A., architect, Corney-sq. Dep. £3 3s.

✱**Prudhoe.**—Houses.—14, at Castle Dene, and sewers, for U.D.C. C., Lloyds Bank-chambs., Hexham.

Ripon and Pateley Bridge.—Fencing.—200 yds. pressure creosoted post and rail fencing and other incidental works at sewage disposal works and refuse tip at Middlesmoor, for R.D.C. J. K. Walton, Chief Sanitary Inspector.

Thurrock.—Fencing.—580 yds. lin. of concrete post and chain link fencing at Whitehall-ln. allotments, Grays, for U.D.C. G. F. Andrassy, E. and S., Grays. Dep. £1 1s.

✱**Wandsworth.**—Erection.—Of day nursery, for T.C. T.C.

SEPTEMBER 1.

Aldeburgh.—Construction.—Of sea defence wall, for T.C. Percival R. Bradley, B.S. Dep. £2 2s.

Banbridge.—Exchange.—Post office, telephone exchange and garage at Scarva-st., for Government of Northern Ireland. Secretary, Ministry of Finance (Room 128), May-st., Belfast. Dep. £3.

✱**Bedford.**—Houses.—10, at Eaton Socon, for R.D.C. S. K. Johnson, Agricultural Officer. Dep. £2 2s.

Birkenhead.—Houses.—102 parlour type 3 and 4 bedroom, and 84 non-parlour type 2, 3 and 4 bedroom, on north side of Woodchurch-rd. and west side of L.N.E. Rly. Woodchurch estate, for C.B. B.E. and S. Dep. £2 2s.

Bollington (nr. Macclesfield). — Telephone Exchange.—For H.M.O.W. Room 65D, Third Floor, H.M. Office of Works, London, S.W.1. Dep. £1.

Bournemouth. — Painting. — At Fairmile House Institution and Cottage Homes, Christchurch, for C.B. Percy C. Ford, Public Assistance Officer, 1, Wootton Mount.

Chesterton. — Houses. — 25, in parishes of Dry Drayton, Elsworth, Girton, Harlton, Landbeach, Over and Stapleford, for R.D.C. J. R. Oxenham, M.Inst.M.C.E., registered architect, The County Hall, Hobson-st., Cambridge. Dep. £2 2s.

Lambeth.—Block Dwellings.—Hemans-st. clearance area, for T.C. B.E., Town Hall, Brixton Hill, S.W.2. Dep. £3 3s.

Leeds.—Erection.—Of refuse disposal station and laundry on Quarry Hill site, for T.C. R. A. H. Livett, A.R.I.B.A. Dep. £2.

Leeds. — Flats. — 80 tenement flats and construction of roads, for T.C. T.C., Room 57, Civic Hall. Dep. £2 each.

✱**Oxford.**—Houses.—272, on Rose-hill No. 2 estate, and 68, on Barton No. 2 estate, and 1 pair on Southpk. estate, for T.C. City E. and S. Dep. £3 3s.

Rawmarsh.—Clinic.—Child welfare clinic, for West Riding C.C. West Riding Architect, Wakefield.

Sunderland.—Flats.—44, at High-st. East, for North Eastern Housing Assoc., Ltd. J. R. Lewis, B.E. and S., Town Hall. Dep. £3 3s.

Yeovil.—Demolition.—Of thatched cottage, Preston-rd., for T.C. B.S.

SEPTEMBER 2.

Cheltenham. — Clubhouse. — At Gloucester and Cheltenham Joint Airport. Joint Engineer, Municipal Offices, Cheltenham. Dep. £1 1s.

Nottingham. — Extensions. — And alterations to central telephone exchange, for H.M.O.W. Room 65D, Third Floor, H.M. Office of Works, London, S.W.1. Dep. £1.

Strood.—Houses.—38, for R.D.C. W. J. Simpson, Council Offices, Frindsbury-hill. Dep. £2 2s.

Wicklow.—Cottages.—For Board of Health and Public Assistance. P. J. Foley and J. T. O'Byrne, engineers, 32, Lower Abbey-st., Dublin, and "Ardcairn," Wicklow.

SEPTEMBER 3.

✱**Camberwell.**—Crematorium.—On cemetery land at Honor Oak, entrance from Brockley Footpath, for T.C. William Bell, B.E. and S. Dep. £2 2s.

✱**Esher (Surrey).**—Alterations.—And extensions to central fire station, High-st., for U.D.C. E. and S. Dep. £2 2s.

Liskeard.—Addition.—Of staff rooms and science room at County School, for Cornwall C.C. S. Pool, A.R.I.B.A., County Hall, Truro. Dep. £2 2s.

Northampton.—Houses.—134, on Spencer estate, for T.C. B.E. Dep. £5.

Northampton.—Shops.—2, in Little Cross-st., for C.B. B.E. Dep. £5.

Preston.—Installation.—Of new system of electrical wiring at Institution, Fulwood, for T.C. B.S. Dep. £2 2s.

Shipley.—Alterations.—At branch dispensary, "Farr Royd," Bradford-rd., for West Riding C.C. West Riding Architect, Wakefield.

SEPTEMBER 4.

Aberdare.—Clinic.—And offices at Rock-grounds, for U.D.C. E. and S. Dep. £1 1s.

Brierley Hill.—Sheds.—100 sectional wooden sheds on Council's housing estates, for U.D.C. E. H. J. Comber, E. and S.

Chester.—Cottages.—3 semi-detached pairs with outbuildings, on Tarvin Estate, near Chester, for Cheshire C.C. M. T. Hedley, County Land Agent, 16, Nicholas-st., Chester. Dep. £2 2s.

***Ealing.**—Flats.—20, at junction of Ruislip-rd. and Perivale-ln., for T.C. B.E. Dep. £2 2s.

Edlington Hill.—Installation.—Of domestic hot-water supply at Edlington Hill Council schools, for West Riding E.C. A. J. Dempster, Divisional Clerk, Winchester House, Scot-ln., Doncaster.

Maldon.—Painting.—External, of 48 houses, Cross-rd. estate, Maldon, and 14 houses, Munden-rd. estate, for T.C. Frederick Rath, B.E., 17, High-st.

***Reading.**—Houses.—108, on Whitley Estate, for T.C. Housing Architect, St. Laurence's Churchyard. Dep. £2 2s.

Westmorland. — School. — Adjacent to existing school Kent Terrace, for E.C. A. Knewstubb, architect, St. Andrew's-chams., Penrith. Dep. £5.

York.—Houses.—13 houses and 44 flats in Dale-st. and Swan-st. clearance area, for T.C. City E. Dep. £2 2s.

SEPTEMBER 6.

Chipping Norton.—Cottages, 16, for R.D.C. T. Rayson, F.R.I.B.A., 35, Beaumont-st., Oxford.

East Kesteven.—Houses.—27, at Ruskington, for R.D.C. Edwin H. Sills, L.R.I.B.A., M.S.E., Council Offices, Northgate, Sleaford.

Edinburgh.—Library.—At Dundee-st., for T.C. E. J. MacRae, F.R.I.B.A., City Architect.

Hexham.—Fencing.—620 yds. of creosoted Military fencing, 6 ft. high, for U.D.C. W. G. Landale, A.M.Inst.C.E., Town Surveyor, Hexham House.

Kenilworth.—Conveniences.—In Station-rd., for U.D.C. G. A. J. Edmundson, S. Dep. £1 1s.

Kilkenny.—Dwellings.—54 at Walkin-st., for T.C. R. F. Bowen, B.S. Dep. £3.

Newcastle-upon-Tyne. — Recovering Roof. — Of shed, Newcastle Quay, for T.C. City E.

***Oldham.**—Installation.—Of electric light to 42 bungalows, Boundary housing estate, for T.C. B.E. and S. Dep. £1 1s.

Penrith.—Houses.—34, on Raiselands Croft estate, for U.D.C. T. F. Simmonds, E. and S. Dep. £2 2s.

Preston. — Alterations. — To pavilion "C" at isolation hospital, for T.C. B.E. Dep. £1

Walthamstow.—Electrical Installation.—At South-West Essex Technical College, for Essex C.C. J. Stuart, F.R.I.B.A., County Architect, Chelmsford. Dep. £2 2s.

Watford.—Extension.—To physics building, etc., at Building Research Station, for H.M.O.W., Room 65D, Third Floor, H.M. Office of Works, London, S.W.1. Dep. £1

SEPTEMBER 7.

Boldon.—Houses.—7, on Marsden site; 36, on Whitburn site; and 28, on West Boldon site, for U.D.C. N. Hindmarch, S., Council Offices, East Boldon. Dep. £2 2s.

Bristol.—House.—Near Elders & Fyffes' offices, Avonmouth Dock, for P.A. W. P. Wordsworth, Chief Engineer, Avonmouth Docks. Dep. £2.

Croydon.—Construction.—And erection of shelter and lavatories at King George's Field, Lahore-rd., for T.C. B.E. Dep. £2 2s.

Edinburgh.—Garage.—At Russell-rd., for Lighting and Cleansing Department, for T.C. E. J. MacRae, F.R.I.B.A., City Architect.

Feltham.—Depot.—Highways depot at Ashmead-rd., for U.D.C. H. W. A. Carter, E. & S. Dep. £2 2s.

***Heston and Isleworth.**—School.—Junior and Infants' at Norwood Green, Middlesex, for T.C. B.S., Hounslow. Dep. £2 2s.

Irthlingborough.—Electrical Installations.—In 60 houses on Hayway-Cherry-st. estate, for U.D.C. E. Turnbull, S.

Lexden and Winstree.—Houses.—4, for R.D.C. Baker & Burton, chartered architects, 3, Church-st., Colchester. Dep. £1 1s.

Musselburgh.—Golf Club House.—At Monktonhall, for T.C. John Logan, B.S.

Rochester.—Annual cleaning of St. Bartholomew's Hospital, for House Committee. Superintendent-Secretary.

***St. Helens.**—Erection.—Of gas showrooms, corner of Lotham-st. and Ormskirk-st., for T.C. Biram & Fletcher, FF.R.I.B.A., 17, George-st. Dep. £2 2s.

Sittingbourne and Milton.—Painting.—Exterior, and decorating 120 houses, on Quinton housing estate, for U.D.C. S.

Walsall.—Cottage Homes.—On Ryecroft housing site, section 7B, for T.C. B.S. Dep. £3 3s.

SEPTEMBER 8.

Cork.—Alterations.—And additions to Crawford Municipal Technical Institute, Sharman Crawford-st., for Vocational E.C. B. O'Flynn & Son, architects, 60, South Mall. Dep. £10.

Esher.—Cottages.—Two, at Cobham depot, High-st., Cobham, for U.D.C. Surveyor's Dept. Dep. £3 3s.

Lochgelly.—Painting.—All iron railings, gates, wooden railings, children's playground apparatus, and all exterior surfaces at present painted, on sports pavilion, tennis clubhouse, and children's shelter, at Wallegreen Park, Bowhill, Cardenden, for D.C. Charles Hornal, District Clerk, Town House.

North Kesteven.—Houses.—1, Chadwick Terrace, Cleethorpes, Lincoln. Dep. £1 1s.

Rothwell.—Painting.—And decorating of isolation block and extensions to diphtheria block, at Isolation Hospital, Haigh-rd., for U.D.C. F. Hartley, architect, Council Offices.

SEPTEMBER 9.

Liskeard.—Houses.—22, for R.D.C. E. C. Higman, L.R.I.B.A., Barras-st., Liskeard.

***Normanton.**—Erection.—Of Post Office and Telephone Exchange, for H.M.O.W. Room 65D, Third Floor, H.M. Office of Works, London, S.W.1. Dep. £1.

Penybont.—Clinic.—At Wannbant-rd., Kenfig Hill, for R.D.C. J. Simon Davies, S. Dep. £2 2s.

Saltney.—Extensions.—To Shirehall and County Offices at Shrewsbury. A. G. Chant, A.R.I.B.A., 5, Belmont. Dep. £2 2s.

***Tenterden, Kent.**—Houses.—20, in Ox-la., St. Michaels, including fences and paths, for T.C. B.S. Dep. £2 2s.

***Warrington.**—Grammar School.—In Grappenhall-rd., Latchford, for T.C. B.E. and S. Dep. £10 10s.

SEPTEMBER 10.

***Birkenhead.**—Tenements.—32, in Ilchester-rd., for T.C. B.E. and S. Dep. £2 2s.

Birkenhead.—Demolition.—Of Block "H" and Block "I" (Dock Cottages), in Ilchester-rd. and Stewart-st., for C.B. B. Robinson, B.E. and S.

Leominster.—Swimming Bath.—Open-air at "Sydonia" recreation ground, for T.C. Mr. Tomkys, B.E. and S. Dep. £2 2s.

Nottingham. — Houses. — 308, on Broxtowe-ln. estate, for T.C. E. Phillips, Housing Architect, Exchange-bldgs. East. Dep. £1.

SEPTEMBER 11.

South Shields. — Alteration. — Of former High School for Boys in Mowbray-rd., for E.C. Education Secretary.

Wednesbury. — School. — At Crew-rd., for T.C. Arthur Booth, L.R.I.B.A., architect. Dep. £5 5s.

SEPTEMBER 13.

***Birkenhead.**—Extensions.—To Rock Ferry High School, for T.C. B. Robinson, architect. Dep. £2 2s.

***Chertsey.**—Houses.—28 at Chertsey and 4 at Addlestone, for U.D.C. E. and S. Dep. £2 2s.

London.—Shed.—Transit shed and warehouse at Westbourne Park, for G.W.R. E., Paddington Station. Dep. £2 2s.

***St. Pancras.**—Erection.—Of 95 working-class flats at Camden Park-rd., for T.C. T.C., Euston-rd., N.W.1. Dep. £2 2s.

***Wellington, Somerset.**—Erection.—Of 6 houses and 8 flats at Longforth site, 28 houses and 8 flats at Ball Meadow, Rockwell Green, for U.D.C. E. T. Howard, architect, 67, High-st.

SEPTEMBER 14.

Cheshunt. — Sports Pavilion. — In Grundy-pk., Turners-hill, for T.C. J. E. Sharpe, E. and S.

***Essex.**—Enlargement.—Of Dagenham Halbutt-st. Council senior school, for C.C. J. Stuart, F.R.I.B.A., Chelmsford. Dep. £2 2s.

***Huntingdon.**—Secondary School.—At Brampton-rd., for C.C. Thos. H. Longstaff, County Architect. Dep. £2 2s.

West Hartlepool.—Houses.—52, Old Town, for C.B. Francis Durkin, B.E. Dep. £5.

Yiewsley and West Drayton.—Houses.—120, at Bell Farm estate, and roads and sewers. W. T. Morgan, engineer. Dep. £2 2s. each.

SEPTEMBER 15.

Deptford.—Guard Rails.—In Mantle-rd., for B.C. B.E. and S.

SEPTEMBER 16.

Chester.—Alterations.—And additions to Nantwich and Acton Grammar School, for T.C. F. Anstead Browne, F.R.I.B.A. Dep. £1 1s.

SEPTEMBER 17.

***Chesterfield.**—Reconstruction.—And additions to Brambling House School, for T.C. Wilcockson & Cutts, architects, 32, Saltergate. Dep. £2 2s.

***Huddersfield.**—Houses.—267, on Bracken Hall housing estate, for T.C. B.E. Dep. £3 3s.

SEPTEMBER 18.

Hoylake.—Flats.—32, off Carr-la., and the construction of necessary roads and sewers, for U.D.C. E. and S. Dep. £2 2s.

Newton-in-Makerfield. — Extension. — Additional offices adjoining main Town Hall building, for U.D.C. J. Walmsley, S. Dep. £2 2s.

SEPTEMBER 20.

***Darton (nr. Barnsley).**—Erection.—Of 32 houses in Higham Common-rd., Higham, for U.D.C. Chief Sanitary Inspector.

Northampton.—Erection.—Of refuse disposal plant at West Bridge depot, for T.C. B.E.

SEPTEMBER 23.

King's Lynn.—Erection.—Of 2 schools, for T.C. Secretary. Dep. £3 3s.

SEPTEMBER 29.

***Ealing.**—Erection.—Of refuse destructor, Greenford, for T.C. F. J. Forty, B.S. Dep. £5.

Hackney.—Extensions.—To electricity generating station, Millfields-rd., for T.C. B. Electrical E., 18-24, Lower Clapton-rd., E.5. Dep. £2 2s.

OCTOBER 4.

***Doncaster.** — Extensions. — To Park Council school, for E.C. H. A. Hickson, architect, Hallcroft-chambs., Hall Gate. Dep. £2 2s.

NO DATE.

Crowland.—Bungalow.—At Green Bank Farm, for Holland C.C. E. J. A. Christie, F.L.A.S., County Hall, Boston.

***Newcastle-upon-Tyne.**—Erection.—Of elementary school at Whickham View, Benwell, for E.C. Director of Education. Dep. £5.

Port Talbot.—Painting.—Gibeon Church, Talbach. J. P. Thomas, 10, High-st., Talbach, Port Talbot.

MATERIALS, etc.

AUGUST 22.

Failsworth.—Bituminous Surfacing Material.—For U.D.C. J. W. E. Brown, S.

Plymouth.—Builders' Materials.—For T.C. T.C.

Stoke-on-Trent.—Builders' Materials.—For T.C. City S.

Wembley. — Supplying. — And laying approx. 1,400 ft. lineal of 1-in. and ¾-in. puddled iron water services at cemetery, Clifford-rd., for U.D.C. Treasurer, 117a, High-rd. Dep. £1 1s.

AUGUST 27.

Wolverhampton.—Highway Materials.—For C.B. H. B. Robinson, B.E.

AUGUST 28.

Manchester. — Highway Materials. — For T.C. Chairman, Highway Committee.

Yorkshire.—Road Material.—For West Riding C.C. West Riding S., County Hall, Wakefield.

AUGUST 31.

***Durham.**—Building Materials.—For C.C. F. Willey, F.R.I.B.A.

Edmonton.—Portland Cement, etc.—For U.D.C. E.

Tipton.—Building Materials.—For 137 houses on Tibbington housing estate, section 7, for U.D.C. Charles R. Gallie, A.R.I.B.A., Housing Director.

SEPTEMBER 3.

***Norwich.**—Building Materials.—For T.C. City Engineer.

ENGINEERING, IRON AND STEEL.

AUGUST 23.

Edgware.—Heating.—Panel and hot-water coil heating, domestic hot-water, gas, steam and condense distributing mains and installations, in garage and mortuary block at Redhill County Hospital, for Middlesex C.C. County Architect, 10, Great George-st., Westminster, S.W.1. Dep. £2 2s.

Hertfordshire.—Reconstruction.—And widening of Two Waters Mill bridge, for C.C. A. Ernest Prescott, C.S., Hatfield. Dep. £2 2s.

North Cotswold. — Waterworks. — For R.D.C. Major W. Herbert Bateman, M.C., M.Inst.C.E., Batheaston, Bath. Dep. £5 5s.

Nottingham. — Construction. — Of reinforced concrete bridge over Cocker Beck on Lowdham By-pass-rd. and widening of Marlock bridge on Lowdham-Gunthorpe-rd., for C.C. C.S., Shire Hall, Nottingham. Dep. £5.

Peterborough.—Installation.—Of engineering services at male casuals' block at Public Assistance Institution, for C.C. Clerk. Dep. £2 2s.

AUGUST 25.

East Suffolk.—Widening.—Of Potters bridge and raising of length of Southwold-Wrentham-rd., for C.C. C.S., County Hall, Ipswich. Dep. 10s.

AUGUST 26.

Ayr.—Dam.—Concrete dam about 320 ft. long and 10 ft. high, across River Ayr, west of new bridge across River Ayr, together with fish pass, sluices and other contingent works, for T.C. Sir Alexander Gibb & Partners, consulting engineers, Queen Anne's Lodge, Westminster, London, S.W.1. Dep. £2 2s.

AUGUST 27.

Slough.—Culvert.—Concrete culvert, 6 ft. 0 in. by 2 ft. 3 in., approximately 150 yds. in length, complete with manholes and appurtenant works, Manor Park-field, for U.D.C. Alan Bromly, E.

AUGUST 28.

Coventry.—Extension.—Of Harnall-ln. East bus garage, for T.C. Ronald A. Fearnley, General Manager and E. Dep. £2 2s.

Warrington.—Engineering Works.—At Borough General Hospital. E. G. Phillips, consulting engineer, Queen's-chambs., King-st., Nottingham.

Wembley.—Culvert.—Reinforced concrete surface water culvert on course of the Wembley Brook at Lancelot-rd. and making-up of Park-way (Part 2), for U.D.C. E. and S. Dep. £1 1s. each.

AUGUST 30.

Basford.—Sewerage.—In parishes of Selston, Brinsley, Awsworth and Annesley, for R.D.C. J. J. Ellis, engineer, surveyor and housing architect, Rock House, Stockhill-ln., Basford, Nottingham. Dep. £4 4s.

Edinburgh. — Widening. — And realignment of portion of Wester Hailes-rd. and construction of bridge to east of existing bridge carrying Wester Hailes-rd. over Union Canal, for T.C. City E.

South Africa.—Structural Steelwork.—For new coaling plant, for Railways and Harbours Administration, Department of Overseas Trade, 35, Old Queen-st., S.W.1. Ref. T.25292/37.

AUGUST 31.

Aldershot. — Engineering Work. — At Isolation Hospital, for T.C. T.C. Dep. £2 2s.

Bristol.—Steelwork.—And construction of reinforced concrete deck, etc., for Eastern-rd. bridge, for T.C. H. M. Webb, B.Sc., M.Inst.C.E., City Engineer and Surveyor, City Engineer's Office, 63, Queen-sq., Bristol, 1. Dep. £2 2s.

Rhondda.—Steelwork.—140 tons of bridge steelwork, for U.D.C. B. Taylor, E. and S.

ROAD, SEWERAGE AND WATER WORKS.

AUGUST 22.

Bridgnorth.—Carpeting.—And kerbing of roads at Woodhall Garden Village, Highley, for R.D.C. G. G. Phillips, architect, New Market-bldgs.

Manchester.—Construction.—Of brick culvert under and adjoining Hulme-rd., Newton Heath for T.C. City E. Dep. £2 2s.

Melksham.—Stoneware Pipes.—In Spa-rd., for U.D.C. R. P. Pearce, T.S. Dep. £1 1s.

Taunton.—Sewer.—From Priors Wood to Lyngford ln., for T.C. I. F. Shellard, B.E., St. Paul's House. Dep. £2 2s.

Taunton.—Roads.—And sewers at Leycroft-rd., for T.C. I. F. Shellard, B.E., St. Paul's House. Dep. £2 2s.

Wanstead and Woodford.—Reconstruction.—Of Stanley-rd., for U.D.C. Armand D. Ward, E. and S. Dep. £2 2s.

AUGUST 24.

Ilford.—Making-up.—Of Baxter-rd., Birch-grove, Breamore-rd. (part), Gordon-rd. (part) and North Cross-rd., for T.C. B.E. and S. Dep. £2 2s. each road.

Northwich.—Making-up.—Of Manor-st., for U.D.C. F. J. James, S. Dep. £1 1s.

Seaton Valley.—Improvement Works.—In four streets at Backworth, for U.D.C. S., Council Offices, Shiremoor, Northumberland.

Staffordshire.—Construction.—Of new road between Brinsford-ln. and "The Harrows Inn" on the Wolverhampton-Stafford-rd., for C.C. County S., County-bldgs., Stafford.

AUGUST 25.

Dunfermline.—Reconstruction.—Of Chalmers-st., for T.C. D. H. Shaw, B.E. Dep. £1 1s.

Cookstown.—Laying.—Of drain in playing field, Fair Hill, for Regional E.C. D. Gourley, Secretary, Education Office.

Easthampstead.—Main Drainage.—Of Crowthorne and Sandhurst, for R.D.C. Howard Humphreys & Sons, engineers, 37, Victoria-st., S.W.1. Dep. £2 2s.

Liverpool.—Streets.—Sewers, pavings, etc., to flats, St. Domingo-rd., for T.C. Director of Housing, Blackburn-chambs., Dale-st., Kingsway. Dep. £1 1s.

Sutton and Cheam.—Making-up.—Of various roads, for B.C. N. H. Michell, B.E. and S., Municipal Offices, High-st., Sutton. Dep. £1 1s. each road.

Uppingham.—Sewer.—Carriageway and footpath, for R.D.C. George Dolphin S.

AUGUST 26.

Wellington (Salop).—Sewerage.—And sewage disposal works, for R.D.C. A. H. S. Waters, E., 25, Temple-row, Birmingham, 2. Dep. £3 3s.

AUGUST 27.

Bucks.—Water Supply Works.—For Water Board. D. Balfour & Sons, civil engineers, 47, Victoria-st., Westminster, S.W.1. Dep. £10 each contract.

Kingsbridge.—Construction.—And maintenance of stoneware pipe sewers, for R.D.C. Lemon & Blizard, consulting engineers, 24, Lockyer-st., Plymouth. Dep. £3 3s.

Leyburn.—Laying.—Of drain pipes and incidental works in Castle Bolton, for R.D.C. W. Sutton, Sanitary Inspector. Dep. £1.

St. Mellons.—Sewers.—In Druidstone-rd. and adjoining private lands, for R.D.C. W. H. Wootton, E. Dep. £5 5s.

Tutbury.—Sewerage Works.—At Stretton, Outwoods and Branstone, for R.D.C. Wilcox, Raikes & Marshall, consulting engineers, 33, Great Charles-st., Birmingham, 3. Dep. £5 5s.

AUGUST 28.

Cheltenham.—Gravity Main.—From reservoir on Churchdown Hill to Hewletts reservoir, for T.C. G. Gould Marsland, B. and Water E. Dep. £2 2s.

Chislehurst and Sidcup.—Road.—To new houses off Windsor-rd., Foots Cray, for U.D.C. Edgar Lawes, E. and S.

Cosby.—Roads.—Concrete roads and sewers, for Land Settlement Association, Ltd. Secretary, Land Settlement Association, Ltd., Broadway-bldgs., Broadway, Westminster, S.W.1. Dep. £2 2s.

Harrow.—Reconstruction.—Of (a) Glebe-ln., Stanmore South; and (b) Rose Garden-close, Stanmore North, for U.D.C. H. W. Rackham, S. Dep. £3 3s.

Southwick.—Making-up.—Of Parkway and Sandown-rd., for U.D.C. Geo. W. Warr, S. Dep. £1 1s.

AUGUST 30.

Blaby.—Works.—In connection with Braunstone surface-water drainage, for R.D.C. F. W. James, E., Council Offices, Narborough, nr. Leicester. Dep. £2 2s.

Chester.—Making-up.—About 1,400 lin. yds. of passages in City, for T.C. Charles Greenwood, City E. and S. Dep. £1 1s.

Erith.—Making-up.—Portion of east side of Harrow Manorway, Abbey Wood, S.E.2, for U.D.C. J. H. Clayton, E. and S. Dep. £1 1s.

Erith.—Making-up.—Of Milton-rd., Belvedere, for U.D.C. J. H. Clayton, E. and S. Dep. £1 1s.

Greenock.—Surfacing.—(1) Two-coat asphalt surfacing of The Vennel; and (2) single-coat asphalt surfacing of other streets in central area, for T.C. B.S.

Kesteven (Lincolnshire).—Roadworks.—Diversion at Sedgebrook-rd. and reconditioning 2 miles of road between Sedgebrook and Grantham, for C.C. C.S., Sleaford.

Middlesex.—Tarpaving.—And tarmacadam at Oak Farm council school, Hillingdon, for C.C. County Architect, 10, Great George-st., Westminster, S.W.1. Dep £2 2s.

Newport Pagnell. — Waterworks. — For R.D.C. Taylor & Wallin, engineers, 1, Saville-pl., Newcastle-on-Tyne. Dep. £5.

Southend. — Roadway. — And playgrounds and drainage at Thorpe School, Thorpe Bay, for E.C. F. W. Smith, architect. Dep. £1.

Tipton.—Sewers, etc.—At Gospel Oak housing scheme, for U.D.C. Horace N. Woodard, S. and S. Dep. £2 2s.

AUGUST 31.

Altrincham.—Making-up.—Of Tabley-gr., Timperley, for U.D.C. H. E. Brown, S. Dep. £2 2s.

Beverley.—Water Mains.—330 yds. in Queensgate-rd., near Beverley, for R.D.C. G. Palfreyman, S., 36, Market-pl.

Donegal.—Sewers.—1,737 yds. of sewers, and construction of pumping station, together with auxiliary works at Ballyshannon, for Board of Health and Public Assistance. William J. Doherty, M.R.I.A.I., 12, Castle-st., Derry. Dep. £5.

Hazel Grove and Bramhall.—Drainage.—4½ miles of stoneware, concrete tube, spun-iron and cast-iron sewers, for U.D.C. G. B. Kershaw & Knufman, chartered civil engineers, 9, Victoria-st., S.W.1. Dep. £5.

Holme.—Sewer.—Laying of 570 yds. of 6 in., with 5 manholes, to join sewer at Turf Gate to sewer at Wheatplace, for U.D.C. —, West, S.

Wetherby.—Footpaths.—Also fencing and gates in connection with North Rigton housing scheme, for R.D.C. Pennington, Hustler & Taylor, architects, Ropergate, Pontefract.

SEPTEMBER 1.

Birkenhead.—Roads.—Roads and sewers, on Woodchurch estate housing scheme (section 1), for C.B. B.E. £3 3s.

Bridgwater.—Laying.—Of sewers and construction of settling tanks, filter, etc., for R.D.C. Sanitary S., R.D.C. Offices, Westonzoyland-rd. Dep. £2.

Clacton.—Making-up 13 various roads, for U.D.C. Wm. Aiston, S. Dep. £3 3s.

Dursley.—Road.—And sewer works at Cam housing Draycott site, for R.D.C. F. J. Smart, clerk. Dep. £1 1s.

Luton.—Road Works.—Reconstruction of Ashcroft-rd., between Hitchin-rd. and Turner's-rd.; reconstruction of Putteridge-rd.; construction of Chester-av. and Hawthorne-av., section I and section II; construction of Roman-rd. (Oakley-rd. to Dordans-rd., for T.C. J. W. Tomlinson, B.E. and S. Dep. £2 2s. each for all except Chester-av., dep. £4 4s. All separate contracts.

Swansea.—Making-up.—Harlech-cres., Carnglas-rd to Glanyrafon-rd., Sketty; Raglan-rd., Sketty; Glanyrafton-rd., Gower-rd. to Harlech-cres., Sketty; Dunraven-rd., Sketty; Penyrheol-dr., Sketty; New-rd. (cul-de-sac) leading north-westwards from Penyrheol-dr., Sketty; and Carnglas-av., Sketty, for T.C. J. Richard Heath, B.E. and S.

SEPTEMBER 2.

Portsmouth.—Paving.—Compressed rock asphalt paving in various roads, for T.C. City E. Dep. £3 3s.

SEPTEMBER 3.

Canvey Island.—Reconstruction.—Of Haven-rd., for U.D.C. E. and S. Dep. £1 1s.

Lancashire.—Diversion.—Of Southport-Tarleton-rd. from Long Ditch Bridge to Tarleton By-pass, near Runner Platt Bridge (2.036 miles), together with reconstruction and widening of Long Ditch Bridge, Mere Brow culvert and Coe House culvert; also by-pass road at Great Eccleston, for C.C. P. Schofield, C.S. and Bridgemaster, County Offices, Preston. Dep. £5 5s. each contract.

New Forest.—Provision.—And laying of stoneware and cast-iron sewers, for R.D.C. Major W. Herbert Bateman, M.C., M.Inst.C.E., Batheaston, Bath. Dep. £2 2s.

Willenhall. — Works. — In connection with Short Heath main drainage, for U.D.C. G. A. Waite, E. Dep. £3 3s.

SEPTEMBER 4.

Berkhamsted.—Making-up.—Of Ashlyns-rd., for U.D.C. J. R. Hadfield, S. Dep. £1.

Isle of Ely.—Surfacing.—Wisbech-Peterborough-rd., for C.C. C.S., March.

Manchester.—Construction.—Of eastern intercepting sewer (5th section), for T.C. City E. Dep. £5 5s.

SEPTEMBER 6.

Droylsden.—Extensions.—600 yds. of 30 in. dia. connecting sewer from existing outfall sewer to Manchester City boundary, together with short lengths of 18 in., 15 in. and 12 in. branch sewers and construction of storm-water overflow and separation works, etc., for U.D.C. Maj. W. H. Bateman, consulting engineer, Batheaston, Bath. Dep. £2 2s.

Kingswood. — Making-up. — Of Northfield and Highfield-avs., Hanham, for U.D.C. S. Dep. £2 2s.

Manchester.—Sewering.—And draining, kerbing, channelling, flagging (artificial), and paving (tarred macadam and concrete) of roads on southern area of Booth Hall housing estate, Blackley, for T.C. City E. Dep. £2 2s.

Walsingham.—Sewers.—Relaying of approximately 300 yds. of 8 in. and 9 in. and other incidental works, including road reinstatement, for R.D.C. W. H. Moffatt, E. and S.

SEPTEMBER 7.

Boldon.—Roads.—And sewers on housing sites at Whitburn and West Boldon, for U.D.C. N. Hindmarch, S. Dep. £2 2s.

Pocklington. — Repairing. — Of main sewers, Market-pl. and High-st., for R.D.C. Godfrey T. Bradley, M.Inst.C.E., Ryecroft, Newgate, Cottingham. Dep. £2

Shoreham-by-Sea.—Mains.—Laying of approximately 1,122 yds. of 4-in. asbestos-cement pressure main and erection of pumping plant and incidental works on Council's housing site, east Stoney-lane, Kingston-by-Sea, for U.D.C. J. Dunn, S. Dep. £1.

SEPTEMBER 8.

Friern Barnet.—Making-up.—Of Hemington-av., Friars-av., Queenswell-av., St. James-av., Myddleton-pk. footpaths, Oakleigh-av. and Balfour-gr., for U.D.C. J. M. Gameson, E. and S. Dep. £2 2s.

Talacre.—Water Supply.—To Tyin-y-morfa Holdings, for Flintshire C.C. J. P. Griffiths, Chief Agricultural Officer, County-bldgs., Mold.

SEPTEMBER 9.

Southend.—Making-up.—Of Fairway (section 1), St. David's-dr., Parkanaur-av. (section 2) and Sackville-rd., for T.C. E. H. Dyer, B.E. and S. Dep. £1 each.

***Tenterden, Kent.**—Construction.—Of concrete road and footpaths; excavation for and laying of glazed stoneware sewer pipes; and wiring complete for electric light in connection with erection of 20 houses, Ox-la., St. Michaels, for T.C. B.S.

SEPTEMBER 13.

***Wellington, Somerset.**—Construction.—Of roads, footpaths and sewers and water main, at Ball Meadow, Rockwell Green, for U.D.C. E. T. Howard, architect, 67, High-st.

Public Appointments.

AUGUST 23.

Bedford.—Clerk of Works (Temp.).—For C.C. B.E. and S.

Nuneaton.—Property Inspector.—For T.C. T.C.

Surrey.—Construction Assistant (Temp.).—For C.C. Dudley Auckland, C., Kingston-on-Thames.

AUGUST 24.

Dublin. — Planning Officer. — Secretary of the Commission, 45, Upper O'Connell-st.

***London.**—Assistants.—For various professions abroad, also clerk of works for Air Ministry. Secretary, Air Ministry (W.9), Adastral House, W.C.2.

AUGUST 25.

East Suffolk.—Resident Clerk of Works.—For C.C. County Architect, Ipswich.

Lindsey, Lincoln.—Quantity Surveyor.—For C.C. P. W. Birkett, A.R.I.B.A.

AUGUST 28.

Coventry. — Architectural Assistant (Temp.).—For T.C. City E. and S.

***Exmouth.**—Clerk of Works.—For U.D.C. Clerk.

Leeds.—Assistant Clerk of Works (Temp.).—For T.C. J. Johnstone Jervis, 12, Market-bldgs., Vicar-ln.

Luton.—Architectural Assistant.—For T.C. B.E.

Norwich.—Architectural Assistant (Temp.).—For T.C. City Architect.

Smethwick. — Architectural Assistant. — For T.C. B.E. and S.

AUGUST 30.

Exeter. — Junior Architectural Assistant. — For T.C. John Bennett, F.R.I.B.A.

Kensington.—Architectural Assistant (Temp.).—For T.C. F. Webster, T.C.

***Southampton.** — Architectural Draughtsman (Temp.).—For T.C. B.E. and S.

AUGUST 31.

Bedford.—Clerk of Works.—For C.C. County Architectural Dept.

Cape Town. — Studio Master. — In School of Architecture of University. Secretary, Office of the High Commissioner for the Union of South Africa, South Africa House, Trafalgar-sq., London, W.C.2.

***Leeds.**—Clerk of Works.—For General Infirmary. House Governor and Secretary.

***Shrewsbury.**—Architectural and Civil Engineering Assistant.—For War Dept. Commander, Royal Engineers, R.E. Office, Kinnersley House, Belle Vue.

SEPTEMBER 1.

London. — Architect. — Assistant Under-Secretary of State, Air Raid Precautions Dept., Home Office, Horseferry House, Thorney-street, S.W.1.

***Salop.**—Clerk of Works (Temp.).—For C.C. County Air Raid Controller, County Police Station, Swan-hill, Shrewsbury.

SEPTEMBER 3.

Liverpool. — Architectural Assistant (Temp.).—For T.C. T.C.

***Luton.**—Junior Architectural Assistant.—For T.C. B.E. and S.

SEPTEMBER 4.

Caernarvon. — Architectural Assistant. — For C.C. C.

Durham. — Costs and Estimating Clerk. — For C.C. F. Willey, F.R.I.B.A., 34, Old Elvet.

Durham.—Works Superintendent.—For C.C. F. Willey, F.R.I.B.A., 34, Old Elvet.

Gloucestershire.—Junior Architectural Draughtsman.—For C.C. R. S. Phillips, F.R.I.B.A.

***Huddersfield.**—Quantity Surveying Assistant.—For T.C. B.E.

SEPTEMBER 6.

Dulwich.—Architect and Surveyor.—Secretary and General Manager, The Old College, S.E.21.

London. — Visiting Teacher at Hammersmith School of Building and Arts and Crafts, Lime-gr.—For L.C.C. Education Officer (T.1), County Hall, S.E.1.

SEPTEMBER 7.

***Cumberland.**—Two Senior, Two Junior Architectural Assistants and Buildings Inspector (Temp.).—For C.C. County Architect, 4, Alfred-st. North, Carlisle.

Liverpool. — Studio Instructorship. — For University of Liverpool. Edward Carey, Registrar.

SEPTEMBER 14.

Isle of Ely.—Assistant Quantity Surveyor.—For C.C. County Architect, March.

NO DATE.

***London.**—Architectural and Engineering Assistants (Temp.).—For Air Ministry. Secretary (W.9), Adastral House, W.C.2.

***London.**—Architectural Assistants and Surveyors (Temp.).—For L.C.C. Architect, County Hall, Westminster Bridge, S.E.1.

***London.**—Quantity and Measuring Assistants (Temp.).—For L.C.C. Architect, County Hall, Westminster Bridge, S.E.1.

***Salisbury.**—Two Quantity Surveyors.—For War Dept. Chief Engineer, Southern Command.

CURRENT & PROPOSED BUILDING WORK*

Abbreviations: T.C. for Town Council; U.D.C. for Urban District Council; R.D.C. for Rural District Council; E.C. for Education Committee; B.C. for Borough Council; P.C. for Parish Council; M.H. for Ministry of Health; M.T. for Ministry of Transport; C.B. for County Borough; B. of E. for Board of Education; M.W.B. for Metropolitan Water Board; B.S. for Borough Surveyor; B.E. for Borough Engineer; D.S. for District Surveyor; C. for Clerk; T.C. for Town Clerk; C.E. for County Engineer; C.S. for County Surveyor; S. for Surveyor; E. for Engineer.

Ashton-under-Lyne.—T.C. approved plans for dining-room at district infirmary, for Governors. Architects, Thomas Worthington & Son, 178, Oxford-rd., Manchester.—Libraries Committee approved scheme for extensions of library on playground of Technical School. Plans by W. H. George & Sons, 7, Warrington-st.

Blackpool.—MacKeith & Partners, architects, Empress-bldgs., Church-st., preparing plans for extensions to Savoy Café, Promenade, for 400 additional seating accommodation.—T.C. appointed F. Place, quantity surveyor, to prepare quantities for Haweside-ln., branch library and clinic. Plans by W. Banks, B.S.—W. G. Ellis, 6, Carleton-rd., St. Annes-on-Sea, proposes factory, Stanmore-av., Marton. Plans by Norman Ramsbottom, A.F.A.S., 7 and 9, Dickson-rd.

Chesterfield.—T.C. approved: Workshop extension, Oldfield Pottery, Chatsworth-rd., for James Pearson, Ltd., offices, Clayton-st., Robert Hyde & Son, Ltd.

Dudley.—Board of Management of Guest Hospital propose children's ward as additions to buildings. Plans by A. T. Butler, F.R.I.B.A., 31, Priory-st.—Parochial Council of Oldswinford Parish Church (Rector, Rev. H. H. Williams) propose restoration of tower and spire and rebuilding the nave, recommended by Sir G. G. Scott, R.A., 3, Field Court, Gray's Inn, London, W.C.1.—Frank Myatt, Ltd., brewers, Holt-st., Aston Cross, Birmingham, propose licensed premises, corner of Watsons Green-rd.

Forshee and Henstead.—R.D.C. to make clearance areas involving demolition of 38 houses in Costessey. This is part of scheme to demolish 84 houses in New Costessey and 26 in Old Costessey and build a new council estate of 110 houses between Stafford-av. and Water-ln., off main Norwich-Dereham-rd.

Gloucester.—T.C. plans approved: Rebuilding of premises, Quay-st., Co-operative Wholesale Society, Ltd.; rebuilding of 37-39, Northgate-st., for Morris de Metz.

Hatfield.—West Riding E.C. approved plans for extensions to Woodhouse school, at £6,700. H. Wormald, A.R.I.B.A., Education Architect.

Hayes. — U.D.C. approved:—Layout, garages, Nash estate, and layout, 120 houses and drainage plan, Nash estate, T. F. Nash Construction, Ltd.; factory, Dawley-rd., J. A. Hewtson and Co.; revised layout, 64 houses and type plan, Wood End Green estate, G. Wimpey & Co., Ltd.; layout, 32 houses and type plan, P. I. Bourne Farm estate, G. Wimpey and Co., Ltd.

Kettering.—H. R. Surridge, of Gotch, Saunders & Surridge, architects, High-st., to prepare specifications for houses at Corby, for R.D.C.—J. T. Blackwell, architect, Gold-st.-chambs., to prepare plans for houses at Geddington, for R.D.C.

Liverpool.—Plans passed by Corporation: 5 houses, Portlock-rd., 12 houses, Williton-close, and 5 houses, Woolacombe-rd., A. E. Shennan, for Heathside Estates, Ltd.; alteration and addition to gynæcological ward, Liverpool Royal Infirmary, Pembroke-pl., Edmund Kirby & Son; conversion of 33 tenements into 16 flats, 9-29, Bankhall-st., and 24 tenements into 12 houses, 8-30, Forge-st., Medcalf & Medcalf, for Veritable Securities & Mortgage Investment Association, Ltd.; extension, Finch-pl., Reckitt & Sons, Ltd., for Ashley Accessories, Ltd.; extension to office and laboratory, Edwards-ln., Rowland Stubbs, for Beck, Koller & Co. (Eng.), Ltd.; rebuilding of public-house, "The Brown Cow," Falkner-st., A. E. Shennan, for Peter Walker & Sons, Ltd.; amended drawings, new cinema, Prescot-rd., corner of Baden-rd., W. R. Glen, for Associated British Cinemas, Ltd.; house, petrol station and garage building, Broadgreen-rd., Geo. Gilford, for R. Williams.

Maidenhead.—T.C. approved erection of municipal offices and Council chamber, at £40,000.

Manchester.—Walkden Provident Industrial Co-operative Society, Ltd., propose reconstruction of central premises, Manchester-rd., at £25,000.—B.E. approved plans for extensions at Chorlton High School for Boys.—R.C. Authorities propose three senior schools in Blackley and Moston districts.

Mexborough.—D. W. Harrop, A.R.I.B.A., architect, Bank-st., prepared plans for additions to printing works in High-st., for Times Printing Co., Ltd.

Middlesbrough.—School to be built in Stainsby-rd., for Methodist Union. Plans by Archibald & Archibald, 26, Albert-rd.—Plans prepared for garages, etc., in Marsh-rd., for Tees-side Bridge & Engineering Co., Ltd. Architects are Archibald & Archibald, 26, Albert-rd.

Middlesex.—C.C. recommend independent architect be consulted upon proposals of Public Health Committee for extension and modernisation of North Middlesex County Hospital.—Council approved reconstruction of Chiswick High-rd., with special asphaltic material, at £28,380 16s. 8d.—Repairs, decorations and improvements at £500 to be carried out at Rusbolt House, Denham.—Exterior of pavilion on Yeoveney Manor estate to be repaired, etc., at £400.—£600 recommended for adaptation work at 9, Tufton-st., Westminster, S.W.1.—County Architect to arrange for temporary classrooms at Preston Park Council school, Wembley, at £666.—Council to arrange for provision of additional sanitary accommodation at Woodthorpe-rd. Council school, Ashford.—Council also approved extension of dwelling-house on Holding No. 21 on Denham estate, by provision of additional bedroom and bathroom, at £200.—County Architect to arrange for temporary classrooms at Woodthorpe-rd. Council school, Ashford, at £680.—County Architect to obtain tenders for additional temporary accommodation at Feltham Hill Council school, and for demolition of houses known as 16 to 26, Bath-rd., Chiswick, acquired in connection with enlargement of Chiswick Polytechnic.—Approximately £550 to be spent on structural alterations to portion of steward's stores at Central Middlesex County Hospital, and £225 in connection with provision of an additional verandah to main block at Clare Hall Sanatorium.—County Architect to arrange for further temporary classrooms at Yeading Council school, Hayes, at £675.

Oldham.—T.C. approved plans for gas showrooms in Henshaw-st. Plans by J. Ashurst, B.S.

Paddington.—B.C. approved:—Caroe & Passmore, formation or laying out of street between Maida Vale and Andover-pl.; W. Williamson, erection of additions to Palace Hotel, Lancaster Gate; petroleum filling station at 3-8, Porchester-gate.

Poplar.—B.C. approved: Trollope & Colls, Ltd., 5, Coleman-st., E.C., alterations and additions at Bryant & May's works, Fairfield-rd., Bow, E.3; W. J. Clemens, Bridge-rd., Stratford, E.15, extension to premises, Tobago-st.; H. J. Starkey, 2, Dean Farrar-st., S.W.1, alterations to premises, Blair-st.

Rotherham.—T.C. approved plans for extensions to warehouses, Vicarage-ln., J. Fawcett, Ltd., 18, High-st.

Saltburn.—L.N.E.R. proposes extensive alterations to "Zetland Hotel."

Shrewsbury.—W. Butler & Co., Ltd., Springfield Brewery, propose hotel, Monksmoor-rd. Architect, A. E. Williams, Kenneth-chambs., Dogpole.

Skegness.—Board of Management of Skegness Cottage Hospital propose extensions, at £15,000.

Sowerby Bridge (Yorks).—U.D.C. to erect 50 houses on Beechwood estate, at £17,091.

Stanmore.—J. Laing & Son, Ltd., to build 62 more houses in Old Church-ln.

Stepney.—B.C. approved scheme for rearrangement of Canal-rd. public cleansing depot, at £3,230.

Stockport.—B.S. to prepare plans for branch library in Alexandra Park, off Cheadle Old-rd.—T.C. propose 4 blocks of flats at Woodhall-rd., South Reddish, at £4,160.—Quantities in course of preparation for new Bruntwood Hotel, Cheadle Hulme. Architect, S. Worthington, A.R.I.B.A., 178, Oxford-rd., Manchester.

Stoke Newington.—B.C. considered elevation drawings submitted by Chas. P. Whiteley & Son in connection with proposed sub-station in Manor-rd.—Council considering proposed estimate of £23,000 for redevelopment of old Town Hall site.

Stourbridge.—T.C. approved plans for rebuilding Garibaldi Inn, Cleveland-st., for Wolverhampton and Dudley Breweries, Ltd.—Board of Management of Haley Green Hospital approved plans for extensions. Architects, Folkes & Folkes, 34, Hagley-rd.

Sunderland.—Plans by W. and T. R. Milburn, 17, Fawcett-st., been approved for hotel to be named the Glebe Hotel in Durham-rd.

Trevor.—Caernarvonshire E.C. propose central school for 240 children at Trevor, near Llanselhaiarn. County Architect, W. Lloyd Jones, Caernarvon.

Urmston.—C.E. authorities propose erection of church and school, Welbeck-rd.—Plans approved by T.C.: housing estate, junction of Grange-rd. and Grangethorpe-rd., M. Whittaker & Co.; 36 houses, Canterbury-rd., Dorchester-rd., Moss Valeres., A. Locke, Ltd., Lostock-rd.

Ventnor (I.O.W.).—Plans by P. M. Du Feu, L.R.I.B.A., Belgrave-chambs., have been prepared for zoological gardens and restaurant, Steephill.

Wakefield.—J. Bullock & Sons (1928), Ltd., City Garage, propose extensions to motor works, Nelson-st. Architects, Dobson & Gighall, City-chambs., Wood-st.

Wallasey.—E.C. propose council school, Rastway, Moreton. Architects, Quiggin & Gee, FF.R.I.B.A., North House, North John-st., Liverpool, 2.

Wallsend.—North Heaton Development Co., Ltd., Grey-st., Newcastle-on-Tyne, to erect 5 shops and assembly hall in Tynemouth-rd., on Low Willington estate. Plans by Marshall, Tweedy & Bourn, 129, Pilgrim-st., Newcastle-on-Tyne.—Amended plans been approved for "Rising Sun Hotel," King's-rd., for Calders, Ltd. Architects are Hetherington & Wilson, County-chambs., Westgate-rd., Newcastle-on-Tyne.

Walsall.—T.C. approved plans for church, Walstead-rd., for Rev. A. Fraser. Architects, Lavender & Twentyman, Waterloo-rd., Wolverhampton.

Walthamstow.—T.C. approved:—Open covering, Lesser's Factory, Argall-av., Hebden & Porri; alterations, 163-5, Hoe-st., A. Davis & Co.

Warrington.—N. Greening & Sons, Ltd., Britannia Works, propose extensions to offices. Plans by Wright & Hamlyn, architects, 24, Winmarleigh-st.

Wednesbury.—T.C. received sanction to borrow £3,296 for Mesty Croft clinic.

West Ham.—C.B. approved:—Hall, 62, Field-rd., W. A. Hunt; bridge connecting offices, Grove Glass Works, Marshgate-ln., Robinson, King & British Challenge Glazing Co.; alterations to form three shops, site of 366-372, Green-st., and 8 self-contained flats over, Raymond-rd., Prices Tailors, Ltd.; rebuilding second floor of workshop, Victoria Mills, Wharf-rd., C. S. Errington; 12 houses, Brooks-rd. and Chadd-st., 6 houses, adjoining 1a, Margery Park-rd., and 9 garages, Disraeli-rd., R. J. L. Slater.

Westminster.—City E. to obtain tenders for decorations at City Hall, which estimated cost is £722, and tenders for repairs at Caxton Hall, estimated cost being £423.—Works estimated to cost £320 to be carried out at 147 and 149, Wardour-st.—Council recommended exterior decorations and repairs to Establishments at Buckingham Palace-rd., Great Smith-st. and Marshall-st., at £291, £200 and £420 respectively.—City E. to obtain tenders for construction of new street No. 2, in either temporary or permanent manner.—City Council approved plans and interim development proposals: 3, Carlton House-terr., conversion into flats; 159, Oxford-st. and 35, Poland-st., shops and offices; 6, 7 and 8, Charles-st., St. James's-sq., offices; Tenison School site, Leicester-sq. and Charing Cross-rd., garage, offices and shops; 12-26, Lexington-st., warehouse and workrooms; 7, Blenheim-st., 24, Woodstock-st., Haunch of Venison-yard and Globe-yard, warehouse, showrooms and restaurant; 2-5, Great Stanhope-st. and Curzon-st., service suites, restaurant, shops and garage; 9 and 10, Great Stanhope-st., office extension to Stanhope House, Park-ln.; 4, Seamore-pl., shop and flats; 21-24, Grosvenor-pl., office and garage building; 9, Chesterfield-gdns., shops and offices; Kingston House, Kensington-rd., erection of flats (block 2); Lancelot-pl. and Tullet-pl., garage and formation of private street between Lancelot-pl. and Tullet-pl.

Whitehaven.—Details of scheme for erection of hospital at Homewood have been approved by Governors of Whitehaven and West Cumberland Hospital. Scheme to cost £149,000.

Whitehaven.—T.C. passed layout and plans for 82 houses at Midgey Field; community centre at Knells, and additions to Beacon Mills.

Wolverhampton.—T.C. to extend Isolation Hospital, at £56,710.

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* See also List of Contracts Open.

*** **In these lists every care is taken to ensure that information given is accurate and up to date, but it may occasionally happen that, owing to building owners taking the responsibility of commencing work before plans are finally approved by the local authorities, "proposed" works at the time of publication have been actually commenced.**

RATES OF WAGES IN THE BUILDING TRADE

AS AND FROM 1st FEBRUARY, 1937.

[Every endeavour is made to ensure accuracy, but we cannot be responsible for errors.]

	Craftsmen.	Labourers.
Aberavon	1/7	1/2½
Aberdare	1/6½	1/2
Abergavenny	1/6½	1/2
Abingdon	1/5½	1/1½
Accrington	1/7	1/2½
Aldeburgh	1/3	11½
Aldershot	1/5	1/0½
Alfreton	1/7	1/2½
Alnwick	1/6½	1/2
Altrincham	1/7	1/2½
Amble	1/6½	1/2
Amersham	1/5½	1/1½
Ammanford	1/7	1/2½
Andover	1/5	1/0½
Ardingley	1/5	1/0½
Arundel	1/5	1/0½
Ascot	1/5	1/0½
Ashby-de-la-Zouch	1/5½	1/1½
Ashford (Kent)	1/4½	1/0½
Ashford (Middlesex)	1/7	1/2½
Ashington	1/6½	1/2
Ashstead	1/7	1/2½
Ashton-under-Lyne	1/7	1/2½
Aylesbury	1/5	1/0½
Aylsham	1/4	1/-
Bagshot	1/5	1/0½
Banbury	1/5	1/0½
Barnsley	1/7	1/2½
Barnstaple	1/5	1/0½
Barrow-in-Furness	1/7	1/2½
Barry	1/7	1/2½
Basingstoke	1/5	1/0½
Bath	1/6	1/1½
Batley	1/7	1/2½
Beaconsfield	1/5½	1/1½
Beccles	1/3½	11½
Bedford	1/6	1/1½
Berkhamsted	1/4½	1/0½
Berwick	1/6	1/1½
Beverley	1/7	1/2½
Bexhill-on-Sea	1/5	1/0½
Bideford	1/5	1/0½
Biggleswade	1/4½	1/0½
Billericay	1/4½	1/0½
Birchington	1/4½	1/0½
Birkenhead	‡§1/8½	¶
Birmingham	1/7	1/2½
Bishop Auckland	1/6½	1/2
Bishops Stortford	1/5½	1/1½
Blackburn	1/7	1/2½
Blackpool	1/7	1/2½
Blyth	1/7	1/2½
Bognor Regis	1/5	1/0½
Bolton	1/7	1/2½
Bournemouth	1/6	1/1½
Bracknell	1/5	1/0½
Bradford	1/7	1/2½
Bradford-on-Avon	1/4*	1/-
Braintree	1/5	1/0½
Brentwood	1/6½	1/2
Bridgwater	1/5	1/0½
Bridlington	1/6½	1/2
Brighouse	1/7	1/2½
Brighton	1/6	1/1½
Bristol	1/7	1/2½
Broadstairs	1/4½	1/0½
Bromsgrove	1/6	1/1½
Buckley	1/7	1/2½
Bungay	1/3	11½
Burnham-on-Crouch	1/3½	11½
Burnley	1/7	1/2½
Bursiem	1/7	1/2½
Burton-on-Trent	1/7	1/2½
Bury	1/7	1/2½
Bury St. Edmunds	1/4½	1/0½
Buxton	1/6½	1/2
Byfleet	1/5½	1/1½
Cambridge	1/6½	1/2
Canterbury	1/4½	1/0½
Cardiff	1/7	1/2½
Carlisle	1/7	1/2½
Carnforth	1/7	1/2½
Castleford	1/7	1/2½
Caterham	1/7	1/2½
Chard	1/4*	1/-
Chatham	1/5½	1/1½
Chelmsford	1/5½	1/1½
Cheltenham	1/5½	1/1½
Chepstow	1/6	1/1½
Chertsey	1/6	1/1½
Chester	1/7	1/2½
Chesterfield	1/7	1/2½
Chichester	1/5	1/0½
Chorley	1/7	1/2½
Cirencester	1/4½*	1/0½
Clacton	1/5	1/0½
Cleveleys	1/7	1/2½
Clitheroe	1/7	1/2½
Cobham (Surrey)	1/6	1/1½
Colchester	1/6	1/1½
Colwyn Bay	1/6	1/1½
Congleton	1/6½	1/2
Coventry	1/7	1/2½
Cranbrook	1/4½	1/0½
Cranleigh	1/5	1/0½
Crawley	1/5	1/0½
Crewe	1/6	1/1½
Cromer	1/4	1/-
Crowborough	1/5	1/0½
Cuckfield	1/5	1/0½
Darlington	1/7	1/2½
Darwen	1/7	1/2½
Daventry	1/5½	1/1½
Deal	1/4½	1/0½
Denbigh	1/5½	1/1½
Derby	1/7	1/2½
Devizes	1/3½*	11½
Dewsbury	1/7	1/2½
Didcot	1/5	1/0½
Diss	1/3½	11½
Doncaster	1/7	1/2½
Dorchester	1/4½*	1/0½
Dorking	1/5½	1/1½
Dover	1/4½	1/0½
Dovercourt	1/5	1/0½
Driffield	1/5½	1/1½
Droitwich	1/6	1/1½
Dudley	1/7	1/2½
Dunstable	1/5	1/0½
Durham City	1/7	1/2½
Eastbourne	1/6	1/1½
E.Glam.(Mon.Val.)	1/6½	1/2
East Grinstead	1/5	1/0½
Edenbridge	1/5	1/0½
Ely	1/3½	11½
Epping	1/7	1/2½
Exeter	1/6†	1/1½
Exmouth	1/5	1/0½
Fakenham	1/3½	11½
Falmouth	1/5½	1/1½
Fareham	1/6	1/1½
Faversham	1/4½	1/0½
Felixstowe	1/5½	1/1½
Filey	1/5½	1/1½
Fleetwood	1/7	1/2½
Flint	1/6½	1/2
Folkestone	1/4½	1/0½
Frinton-on-Sea	1/5	1/0½
Frome	1/4*	1/-
Gainsborough	1/6	1/1½
Gateshead	1/7	1/2½
Gillingham (Kent)	1/5½	1/1½
Glossop	1/7	1/2½
Gloucester	1/6†	1/1½
Godalming	1/5	1/0½
Goole	1/7	1/2½
Gosport	1/6	1/1½
Grantham	1/5½	1/1½
Gravesend	1/6½	1/2
Great Yarmouth	1/5	1/0½
Grimsby	1/7	1/2½
Guildford	1/5	1/0½
Guilsborough	1/5½	1/1½
Halifax	1/7	1/2½
Hanley	1/7	1/2½
Harpenden	1/5½	1/1½
Harrogate	1/7	1/2½
Hartlepools	1/7	1/2½
Harwich	1/5	1/0½
Haslemere	1/5	1/0½
Hastings	1/5	1/0½
Hatfield	1/6	1/1½
Haywards Heath	1/5	1/0½
Hednesford	1/6½	1/2
Hemel Hempstead	1/6	1/1½
Henley-on-Thames	1/5	1/0½
Hereford	1/5*	1/0½
Herne Bay	1/4½	1/0½
Hertford	1/6	1/1½
Heysham	1/7	1/2½
Hitchin	1/5½	1/1½
Hoddesdon	1/6	1/1½
Holt (Norfolk)	1/3	11½
Horley	1/5	1/0½
Horsham	1/5	1/0½
Horwich	1/7	1/2½
Huddersfield	1/7	1/2½
Hull	1/7	1/2½
Hunstanton	1/3½	11½
Huntingdon	1/4	1/-
Ilfracombe	1/5	1/0½
Ingatestone	1/5	1/0½
Ipswich	1/6	1/1½
Isle of Thanet	1/4½	1/0½
Isle of Wight	1/4	1/-
Keighley	1/7	1/2½
Kenilworth	1/7	1/2½
Kettering	1/6½	1/2
Kidderminster	1/6	1/1½
King's Lynn	1/4½	1/0½
Kirkham	1/7	1/2½
Knowle	1/6½	1/2
Lancaster	1/7	1/2½
Leamington	1/6½	1/2
Leatherhead	1/6	1/1½
Leeds	1/7	1/2½
Leicester	1/7	1/2½
Leighton Buzzard	1/4	1/-
Letchworth	1/5½	1/1½
Lewes	1/5	1/0½
Lichfield	1/6	1/1½
Lincoln	1/7	1/2½
Littlehampton	1/5	1/0½
Liverpool	‡§1/8½	¶
Llandudno	1/6	1/1½
Llanelly	1/7	1/2½
London		
12 m. radius	1/8½*	1/3½
12-15 m. radius	1/8*	1/3
Long Eaton	1/7	1/2½
Longton	1/7	1/2½
Loughborough	1/7	1/2½
Louth	1/5½	1/1½
Lowestoft	1/5	1/0½
Luton	1/6½	1/2
Macclesfield	1/6½	1/2
Maidenhead	1/5½	1/1½
Maidstone	1/5½	1/1½
Malvern	1/5½	1/1½
Manchester	1/7	1/2½
Manningtree	1/3½	11½
Mansfield	1/7	1/2½
March	1/4	1/-
Margate	1/4½	1/0½
Market Harborough	1/6	1/1½
Matlock	1/5½	1/1½
Melton Constable	1/3	11½
Melton Mowbray	1/6	1/1½
Merthyr Tydfil	1/6½	1/2
Middlesbrough	1/7	1/2½
Middleton	1/7	1/2½
Middlewich	1/6	1/1½
Milford Haven	1/5	1/0½
Morecambe	1/7	1/2½
Morley	1/7	1/2½
Mundesley	1/4	1/-
Nantwich	1/6	1/1½
Nelson	1/7	1/2½
Newark-on-Trent	1/6	1/1½
Newbury	1/5	1/0½
Newcastle-on-Tyne	1/7	1/2½
Newcastle-u-Lyme	1/7	1/2½
New Forest	1/4	1/-
Newmarket	1/5	1/0½
Newport, Mon.	1/7	1/2½
Newport Pagnell	1/5	1/0½
Northampton	1/7	1/2½
Norwich	1/6½	1/2
Nottingham	1/7	1/2½
Nuneaton	1/7	1/2½
Oakham	1/5½	1/1½
Oldham	1/7	1/2½
Ormskirk	1/7	1/2½
Oxford	1/6½	1/2
Oxted	1/5½	1/1½
Paignton	1/6½	1/2
Peterborough	1/6½	1/2
Plymouth	1/7†	1/2½
Pontefract	1/7	1/2½
Pontypridd	1/6½	1/2
Portsmouth	1/6	1/1½
Port Talbot	1/7	1/2½
Preston	1/7	1/2½
Pulborough	1/5	1/0½
Ramsgate	1/4½	1/0½
Reading	1/6	1/1½
Redditch	1/6	1/1½
Redhill	1/5½	1/1½
Reigate	1/5½	1/1½
Retford	1/5½	1/1½
Rickmansworth	1/6½	1/2
Ripon	1/5½	1/1½
Rochdale	1/7	1/2½
Rochester	1/5½	1/1½
Rugby	1/7	1/2½
Saffron Walden	1/3½	11½
St. Albans	1/6½	1/2
St. Helens	1/7	1/2½
St. Neots	1/4	1/-
Salisbury City	1/4*	1/-
Salisbury Plain	1/4*	1/-
Sawbridgeworth	1/5	1/0½
Saxmundham	1/3	11½
Scarborough	1/6½	1/2
Scunthorpe	1/7	1/2½
Selby	1/7	1/2½
Sevenoaks	1/5½	1/1½
Sheerness	1/4½	1/0½
Sheffield	1/7	1/2½
Shipley	1/7	1/2½
Shoeburyness	1/6½	1/2
Shoreham	1/6	1/1½
Shrewsbury	1/6	1/1½
Sittingbourne	1/4½	1/0½
Skegness	1/6	1/1½
Sleaford	1/5½	1/1½
Slough	1/6	1/1½
Southampton	1/6	1/1½
Southend-on-Sea	1/6½	1/2
Southport	1/7	1/2½
South Shields	1/7	1/2½
Spalding	1/4½	1/0½
Stafford	1/6½	1/2
Staines	1/6	1/1½
Stamford	1/5½	1/1½
Stevenage	1/5½	1/1½
Stockport	1/7	1/2½
Stockton-on-Tees	1/7	1/2½
Stoke-on-Trent	1/7	1/2½
Stourbridge	1/6½	1/2
Stourport	1/6	1/1½
Stowmarket	1/3½	11½
Stratford-on-Avon	1/5½	1/1½
Stroud	1/5½†	1/1½
Sunderland	1/7	1/2½
Sutton Coldfield	1/7	1/2½
Swaffham	1/3	11½
Swanage	1/5*	1/0½
Swansea	1/7	1/2½
Swindon	1/5½*	1/1½
Tamworth	1/6½	1/2
Taunton	1/5	1/0½
Tenterden	1/4½	1/0½
Tewkesbury	1/5½*	1/1½
Thetford	1/3½	11½
Thorpe Bay	1/6½	1/2
Todmorden	1/7	1/2½
Tonbridge	1/5½	1/1½
Torquay	1/6½	1/2
Totnes	1/5†	1/0½
Trowbridge	1/4*	1/-
Truro	1/4	1/-
Tunbridge Wells	1/5½	1/1½
Uppingham	1/5½	1/1½
Uttoxeter	1/5½	1/1½
Wakefield	1/7	1/2½
Walsall	1/7	1/2½
Walsden	1/7	1/2½
Walton-on-Naze	1/5	1/0½
Ware	1/6	1/1½
Warminster	1/4*	1/-
Warrington	1/7	1/2½
Warwick	1/6½	1/2
Wellingborough	1/6½	1/2
Wells (Norfolk)	1/3	11½
Welwyn	1/6	1/1½
Welwyn Gar. City	1/7	1/2½
West Bromwich	1/7	1/2½
Westcliff-on-Sea	1/6½	1/2
Weston-super-Mare	1/6	1/1½
Weybridge	1/6	1/1½
Weymouth	1/4½*	1/0½
Whitby	1/6	1/1½
Whitstable	1/4½	1/0½
Widnes	1/7	1/2½
Wigan	1/7	1/2½
Wigton	1/5½	1/1½
Willington	1/6½	1/2
Wilmslow	1/7	1/2½
Winchester	1/5	1/0½
Windermere	1/5½	1/1½
Windsor	1/6	1/1½
Wisbech	1/4	1/-
Witham	1/5	1/0½
Woking	1/5½	1/1½
Wokingham	1/5	1/0½
Wolverhampton	1/7	1/2½
Woodbridge	1/4	1/-
Worcester	1/6	1/1½
Workington	1/5½	1/1½
Worksop	1/6	1/1½
Worthing	1/5	1/0½
Wrexham	1/6½	1/2
Wroxham	1/4½	1/-
Wycombe	1/5½	1/1½
Wymondham	1/3½	11½
Yeovil	1/5†	1/0½
York	1/7	1/2½

* Painters 1d. less than other Craftsmen. † Painters ½d. less than other Craftsmen. ‡ Plasterers 1/9.

¶ Tradesmen's Labourers 1/3½. Navvies and General Labourers 1/3.

§ Joiners, Plumbers, Bricklayers, Tilers and Masons receive 2/- per week or 4d. per day Tool Money.

For Building Trade wages in Scotland see page 345.

CURRENT PRICES FOR BUILDING WORK IN LONDON*

EXCAVATOR.

		s.	d.
Digging and throwing or wheeling and filling carts, and carting away to shoot—5 ft. deep	per yard cube	8	0
Add if in clay	" "	1	0
Add for every additional depth of 5 ft.	" "	0	6
Planking and strutting to trenches	per foot super	0	3
Do. to sides of excavation, including shoring	" "	1	0

CONCRETOR.

		s.	d.
Portland cement concrete in foundations 1 to 6	per yard cube	24	0
Add if in underpinning in short lengths	" "	5	0
Add if in floors 6 in. thick	" "	3	0
Add if in beams	" "	2	6
Add if aggregate 1 : 2 : 4	" "	8	0
Add for hoisting not exceeding 10 ft. beyond the first 10 ft.	" "	1	6

BRICKLAYER.

		£	s.	d.
Reduced brickwork in lime mortar and Fletton bricks	per rod	26	0	0
Add if in stocks	"	6	0	0
Add if in Staffordshire blues	"	22	0	0
Add if in Portland cement and sand	"	1	5	0

FACINGS.

		s.	d.
Extra for facing in English or Flemish bond for every 10s. per 1,000 over the price of the common bricks	per ft. super	0	0	1½

POINTING.

		s.	d.
Neat flat struck or weathered joint	" "	0	0	3

ARCHES.

		s.	d.
Extra only to the price of ordinary brickwork :—			
Fair external in half brick rings	" "	0	0	10
Axed in stocks	" "	0	0	9
Rubbed and gauged jointed in putty camber or segmental	" "	0	5	9

SUNDRIES.

		s.	d.
Damp course in double course of slates breaking joint and bedded in Portland cement	" "	0	0	11
Setting ordinary register grates and stoves	each	1	0	0
Setting kitchener, including forming flues, etc., with all necessary fire bricks	"	4	15	0

ASPHALTER.

		s.	d.
Half-inch horizontal damp course	per yard super	4	6
Three-quarter-inch vertical damp course	" "	9	6
Three-quarter-inch on flats in two thicknesses	" "	6	0
Angle fillet	per foot run	0	3
Skirting and fillet 6 in. high	" "	1	0

MASON.

		s.	d.
York stone templates fixed	per foot cube	12	9
York stone sills fixed	" "	22	0
Path stone and all labour fixed	" "	10	9
Peer stone and all labour fixed	" "	15	0
Portland stone fixed	" "	16	6
Grey Forest of Dean stone, fixed	per foot cube	15	0
Do. do. templates, fixed	" "	11	6
Do. do. sills, fixed	" "	20	0

SLATER.

		s.	d.
Welsh 16 in. × 8 in. 3 in. lap, including nails	per square	70	0
Do. 20 in. × 10 in. do. do.	"	71	6
Do. 24 in. × 12 in. do. do.	"	73	6

CARPENTER AND JOINER.

		s.	d.
Fir framed in plates	per foot cube	4	0
Do. joists	" "	4	6
Do. roofs, floors and partitions	" "	5	3
Do. trusses	" "	6	9

	1"	1¼"	1½"	2"
Deal rough close boarding per sq.	32/-	38/-	47/-	70/-

		s.	d.
Flat centering for concrete floor, including struts or hangers	"	50	0
Do. to beams	per foot super	0	8
Centre for arches	" "	1	6
Gutter boards and bearers	" "	1	0

FLOORING.

	1"	1¼"	1½"	1¾"
Deal-edges shot per sq.	—	41/-	49/-	58/-
Do. tongued and grooved "	—	46/-	55/-	67/-
Do. matchings "	42/-	47/6	—	—
Moulded skirtings, including backings and grounds per foot super	1/4	1/7	1/9	2/3

SASHES AND FRAMES.

		s.	d.
One-and-a-half moulded sashes or casements	per foot super	1	9
Two do. do. do.	" "	2	0
Add for fitting and fixing	" "	0	2
Deal cased frames with 1 in. inner and outer linings, 1¼ in. pulley stiles tongued to linings, hard wood sills with 2 in. moulded sashes in squares, double-hung, double hung with pulleys, lines and weights, average size		3	3

DOORS.

	1¼"	1½"	2"
Two-panel square framed per foot super	2/1	2/3	2/5
Four-panel do. " "	2/4	2/6	2/9
Two-panel moulded both sides " "	2/6	2/9	2/11
Four panel do. do. " "	2/9	2/11	3/2

CARPENTER AND JOINER—continued.

FRAMES.

		1"	1¼"	1½"
Deal wrot moulded and rebated	per 100s cube			12 0
Plain deal jamb linings framed	per foot super	1/7	1/8	1/11
Deal shelves and bearers	" "	1/2	1/4	1/7
Add if cross-tongued	" "	2d.	2d.	2d.

STAIRCASES.

	1"	1¼"	1½"	2"	2½"
Deal treads and risers in and including rough brackets	2/-	2/3	2/6	—	—
Deal strings wrot on both sides and framed	1/8	2/-	2/2	2/8	—

		s.	d.
Housing for steps and risers	each	0	11
Deal balusters, 1 in. × 1½ in.	per foot run	0	9
Mahogany handrail, average 3 in. × 3 in.	" "	5	6
Add if ramped	" "	11	0
Add if wreathed	" "	22	0

FIXING ONLY IRONMONGERY (INCLUDING SCREWS).

6 in. barrel bolts	8½d.	Rim locks	2/0
Sash fasteners	11½d.	Mortice locks	4/6
Casement fasteners	1/5	Patent spring hinges and letting into floor and making good	19/-
Casement stays	1/2		
Cupboard locks	1/5		

FOUNDER AND SMITH.

		s.	d.
Rolled steel joists	per cwt.	21	0
Plain compound girders	"	24	0
Do. stanchions	"	27	0
In roofwork	"	32	0

RAINWATER GOODS.

	3"	4"	5"	6"
Half-round plain rebated joints ft. run	1/2	1/3	1/9	1/9
Ogee do. do. "	1/4	1/5	2/0	2/8
Rainwater pipes with ears "	1/6	2/0	—	—
Extra for shoes and bends each	3/3	4/6	—	—
Do. stopped ends "	1/3	1/7	2/0	3/0
Do. nozzles and angles "	2/7	3/0	4/2	4/8

PLUMBER.

		s.	d.
Milled lead and laying in flashings and gutters	per cwt.	48	0
Do. do. flats	"	47	0
Extra labour and solder in coated cesspools	each	6	0
Weit joint	per foot run	0	4
Soldered seam	" "	1	6
Copper nailing	" "	0	3

	½"	¾"	1"	1¼"	1½"	2"	6"
Lead overflow ...per ft. run	10½	1/3	1/9	2/1	2/6	3/2	—
" service "	1/4	1/11	2/7	3/7	4/4	5/3	—
" soil "	—	—	—	—	—	—	7/9
Bends in lead pipe, each	—	—	—	—	2/-	2/3	5/6
Wiped solder joints "	2/-	2/6	2/9	3/3	3/6	4/3	6/-
Lead traps and cleaning screws "	—	—	—	9/-	10/-	13/-	—
Bib cocks and joints "	6/6	9/6	—	—	—	—	—
Stop cocks and joints "	11/6	14/6	18/6	—	—	—	—

PLASTERER.

		s.	d.
Render, float and set in lime and hair	per yard sup.	3	0
Do. Do. Sirapite	" "	2	3
Do. Do. Keene's	" "	3	0
Add saw lathing	" "	1	4
Add metal lathing	" "	2	4
(Not including hangers or runners, etc., for suspended ceilings.)			
Portland cement screed	" "	1	6
Do. plain face	" "	3	3
Mouldings in plaster	per 1 girth	0	1½
One-and-a-half granolithic pavings	per yard sup.	4	6

GLAZIER.

		s.	d.
24-oz. sheet plain	per foot sup.	0	7
26-oz. Do.	" "	0	8
Obscured sheet	" "	0	10
¼-in. rolled plate	" "	0	9½
¼-in. rough rolled or cast plate	" "	0	10½
¼-in. wired cast plate	" "	1	2

PAINTER.

		s.	d.
Preparing and distempering, 2 coats	per yard sup.	0	7½
Knotting and priming	" "	0	7
Plain painting, 1 coat	" "	0	9
Do. 2 coats	" "	1	3
Do. 3 coats	" "	1	9
Do. 4 coats	" "	2	4
Graining	" "	2	3
Varnishing twice	" "	1	9
Sizing	" "	0	3
Flatting	" "	0	7
Enamel	" "	1	1
Wax polishing	per foot sup.	0	6
French polishing	" "	1	2
Preparing for and hanging paper	per piece 2/- to 4/-		

*These prices apply *to new buildings only*. They cover superintendence by foreman and carry a profit of 10% on the prime cost without establishment charges. A percentage of 1½ should be added for Employers' Liability and National Health and Unemployment Act, and from 1s. 6d. per £100 for Fire Insurance. The whole of the information given on this page is copyright.

PRICES CURRENT OF MATERIALS*

Owing to the exceptional circumstances which prevail at the present time prices of materials should be confirmed by inquiry.

CHANGES OF THE WEEK: Lead, in all forms, drops by £1.

BRICKS, &c.

Delivered to site, City and Central Area, Full Lorry Loads:

	£ s. d.
Best Stocks	4 15 0
Second Hand Stocks	4 8 0

Per 1,000. Delivered at London Goods Stations.

	£ s. d.		£ s. d.
"Phorpres"	*2 6 3	Flettons, B'fin'se	3 4 0
Flettons at King's Cross	*2 6 3	Best blue Pressed Staffs.	3 6 6
Do., grooved for Plaster.	*2 8 3	Do., Bullnose	3 16 6
		Blue Wire Cuts	7 4 0
White Midhurst Facing Bricks (delivered London site)			4 0 0
"Phorpres" Whites (King's Cross)			3 11 3
"Phorpres" Rustic Facings (King's Cross).			*3 6 3

Best Stourbridge Fire Brick:—

2½ in.	7 15 0	3 in.	8 15 0

* Delivered to site in W.C. district, 4/3 extra per 1,000.

GLAZED BRICKS—

Best White		D'ble Sur'tch'rn	31 10 0
Ivory and Salt Glazed		D'ble Headers	28 10 0
Stretcher	23 0 0	One side and two ends	32 10 0
Headers	22 10 0	Two sides and one end	33 10 0
Quoins, Bullnose and 4½ in. Splays and Finis	29 10 0	Squints	30 0 0

Second Quality, £1 per 1,000 less than best. Cream and buff, £2 extra over white. Other colours. Hard Glaze, £5 10s. extra over white.

PARTITION SLABS.

Delivered London Area.

CLINKER CONCRETE.

2" per yd. sup.	1 6	3" per yd. sup.	2 0
2½" " "	1 8	4" " "	2 4

CRANHAM TERRA COTTA.

2" per yd. sup.	3 0	3" per yd. sup.	3 8
2½" " "	3 6	4" " "	4 7

HEMPSTEAD—KEYED TWO SIDES.

12" x 9" x 2"	2 6	12" x 9" x 3"	3 0
12" x 9" x 2½"	2 9	12" x 9" x 4"	3 9

Per yard super d/d. Free on site, London.

	s. d.	
Thames Ballast	7 3	per yd.
Pit Ballast	6 3	" "
Pit Sand	7 9	" "
Washed Sand	8 3	" "
¾ in. Shingle	7 3	" "
¾ in. Broken Brick	11 3	" "
Tan Breeze	8 3	" "

delivered 2 miles radius Paddington.

CEMENT.

Best British Portland Cement. Standard Specification delivered London Area in jute sacks (11 to ton), or paper bags (20 to ton) free (non-returnable):—

	£ s. d.
4 ton loads and upwards site Per ton	1 19 0
1 ton to 4 tons site	2 1 0
Alongside Vauxhall in 80-ton lots	1 15 0
"Ferrocrete" Rapid Hardening Cement:—	
4 ton loads and upwards site	2 5 0
1 ton to 4 tons site	2 7 0
Alongside Vauxhall in 80-ton lots	2 1 0

NOTE.—Jute sacks are charged 1s. 6d. each and credited 1s. 6d. nett, if returned in good condition within three months, carriage paid.

Water Repellent "Blue Circle" Cement, 30/- per ton extra on ordinary "Blue Circle" Portland Cement prices.

"Colocrete" Nos. 1 and 2 Coloured Rapid Hardening Portland Cement in 1-cwt. paper bags free (non-returnable) in 1-ton lots and upwards site 3 6 0

"Snowcrete" White Portland Cement in 1-cwt. paper bags free (non-returnable)

1 ton and upwards site	9 0 0
Super Cement (Waterproof) paper bags free	3 9 0
Roman Cement	6 15 0
Parian Cement	6 0 0
Keene's Cement, White	6 0 0
" " Pink	5 12 6

Cementone Colours for cement according to tints per cwt. from £2 16 0.

PLASTER.

	£ s. d.		£ s. d.
Coarse, Pink	3 2 0	Strapite, Coarse	3 10 0
" White	3 10 0	" Finish	3 18 0
Pioneer	3 10 0		
Super Carbo	2 7 6	4-ton loads & over London Area, paper bags free.	
Carbo Setting	2 12 6		
Best Ground Blue Lias Lime	1 17 6	Grey Stone Lime Chalk Lime	2 2 0 2 2 0
Granite Chippings	1 12 0	Hair per cwt.	2 2 6

NOTE.—Sacks are charged 1s. 9d. each, and credited 1s. 6d., if returned in good condition within three months, carr, paid.

Stourbridge Fireclay in sacks 37s. 0d. per ton at rly. dep.

STONE.

BATH STONE.—Delivered in railway trucks at Westbourne Park, Paddington, G.W.R., or South Lambeth, G.W.R., per ft. cube s. d. 2 10

BERE STONE—RANDOM BLOCK—

Free on rail at Seaton Station, per ft. cube	2 3
Delivered free on rail Nine Elms, S.R. per ft. cube	3 1½

Selected approximate size one way, 1d. per cubic ft. extra, selected approximately three sizes or for special work, 3d. per cubic ft. extra.

PORTLAND STONE—

Brown Whitbed, in random blocks of 20 ft. average, delivered in railway trucks at Nine Elms, S. Rly., South Lambeth Station, G.W.R., and Westbourne Park, Paddington, G.W.R., per ft. cube	4 4½
Do. do. delivered on road waggons as above stations, per ft. cube	4 5½

White basebed, 3d. per ft. cube extra.

NOTE.—1d. per ft. cube extra for every ft. over 20ft. average, and ½d. beyond 30 ft.

HOPTON-WOOD STONE—

	s. d.
F.O.R. Quarries, Wirksworth, Derbyshire, Random blocks from 10 ft. and over F.ft.cb.	14 0
Sawn two sides	22 6

HOPTON-WOOD STONE—

Sawn three or four sides	27 9

YORK STONE, BLUE.—*Robin Hood Quality.*

Delivered at any Goods Station, London.

6 in. sawn two sides landings to sizes (under 30 ft. super) Per ft. super	5 0
6 in. rubbed two sides, ditto "	5 6
3 in. sawn two sides slabs (random sizes) "	2 3½
2 in. to 2½ in. sawn one side slabs (random sizes) "	1 6½
1½ in. to 2 in., ditto "	1 3½

HARD YORK—

Delivered at any Goods Station, London.

Scappled random blocks Per ft. cube	6 3
6 in. sawn two sides landings to sizes (under 40 ft. super) Per ft. super	5 1½
6 in. rubbed two sides, ditto, "	6 1½
4 in. sawn two sides slabs (random sizes) "	3 1½
3 in. ditto ditto "	2 5
2 in. self-faced random flags Per yd. super	7 6

CAST STONE.

Delivered in London area in full van loads, per ft. cube: Plain, 7s. 6d. Moulded, 8s. 6d. Sills, 10s. 0d.

SOFT WOOD.

GOOD BUILDING DEAL.

Inches.	Per stan.	Inches.	Per stan.
4 × 11	£28 10	3 × 6	£23 10
4 × 9	28 10	3 × 11	27 10
4 × 8	25 10	2 × 11	27 10
4 × 7	25 10	3 × 9	24 10
3 × 8	23 10	2½ × 9	24 10
3 × 7	23 10	3 × 4½	23 10
2½ × 7	23 10	3 × 4	23 10

PLANED BOARDS.

1 × 11	£28 10	1 × 9	£26 10

PLAIN EDGE FLOORING.

Inches.	per sq.	Inches.	per sq.
½	18/-	1¼	30/-
⅝	21/-	1½	37/6
1	23/6		

TONGUED AND GROOVED FLOORING.

Inches.	per sq.		
1	24/-		
1¼	31/-		
1½	38/6		

MATCHING (BEST).

Inches.	per sq.
½	19/-
⅝	21/-
1	27/6

ins. BATTENS. s. d.

½ × 2 per 100 ft. 2 8

SAWN LATHS. s. d.

Per bundle 2 5

HARD WOOD.

1 INCH AND UP THICK.

	£ s. d.
Average price for prime quality.	
Dry Austrian Wainscot, per ft. cube	0 17 0
Dry American and/or Japanese Figured Oak, per ft. cube	0 13 0
Dry American and/or Japanese plain Oak, per ft. cube	0 11 6
Dry sq. edged Honduras Mahogany, per ft. cube	0 15 0
Dry log-cut Honduras Mahogany, per ft. cube	0 16 6
Dry Cuba Mahogany, per ft. cube	1 1 0
Dry Teak, per ft. cube	0 14 0
Dry American Whitewood, per ft. cube	0 10 6
Best Scotch Glue, per cwt.	3 0 0
Liquid Glue, per cwt. 4 7 0 to	5 10 0

HUDDERSFIELD
Building Society

Experience has shown that the arrangements made by the Huddersfield to assist occupier borrowers have given the utmost satisfaction, and the service rendered has been greatly appreciated by builders' clients.

Write for information to The Huddersfield Building Society, Britannia House, 203, Strand, London, W.C.2, or to the Head Office, Britannia Buildings, Huddersfield. Andrew Stewart, C.A., Managing Director.

WHEN YOU INVEST—A HOUSE IS BEST!

SLATES.

First quality slates from Bangor or Portmadoc, carriage paid in full truck loads to London Rate Station. Per 1,000 actual.

	£ s. d.		£ s. d.
24 by 12	29 15 0	18 by 10	15 12 6
22 by 12	25 0 0	18 by 9	14 2 6
22 by 11	22 10 0	16 by 10	13 12 6
20 by 12	22 0 0	16 by 8	10 15 0
20 by 10	19 15 0		

TILES.

Delivered at London rate stations in full truck loads of not less than 6 tons. Per 1,000

f.o.r. London.

Best machine-made tiles from Broseley or Staffordshire district		£4 2 6
ditto hand-made ditto		4 16 0
Ornamental ditto		5 0 0
Hip and valley tiles (per dozen)	Hand-made	0 8 6
	Machine-made	0 8 0

METALS.

JOISTS, GIRDERS, &c., TO LONDON STATION, PER TON—

R.S. Joists, cut and fitted	£16 10 0
Plain Compound Girders	19 0 0
" " Stanchions	21 0 0
In Roof Work	25 0 0

MILD STEEL ROUNDS.—To London Stations, per ton.

Diameter.	£ s. d.	Diameter.	£ s. d.
¼ in.	18 5 0	⅝ in. to ¾ in.	16 15 0
½ in.	17 5 0	⅞ in. to 2¼ in.	16 5 0

WROUGHT-IRON TUBES AND FITTINGS—

(Discount off List for lot of not less than £7 net value delivered direct from Works, 2½ per cent. less above gross discounts, carriage forward, if sent from London Stocks.)

	Standard Wrot. Mild Steel Tubes and Tubulars Sizes	Genuine Wrot. (Puddled) Iron Tubes and Tubulars Sizes	Standard Fittings Sizes.	Standard Flanges Sizes.
	⅛ in. to 6 in.	⅛ in. to 6 in.	⅛ in. to 6 in.	⅛ in. to 6 in.
	%	%	%	%
Gas	63½	51½	57½	70
Water	60½	47½	53½	66½
Steam	57½	45	48½	62½
Galv. gas	53½	41½	47½	62½
Galv. water	48½	36½	42½	58½
Galv. steam	42½	30	38½	55

C.I. HALF-ROUND GUTTERS—London Price ex Works

Per yd. in 6 ft. lengths.	Gutters.	Angles and Nozzles.	Stop Ends.
3 in.	1/8½	1/3½	5½d
3½ in.	1/11	1/6	6½d.
4 in.	2/-	1/7½	8d.
4½ in.	2/1	1/10	11d.
5 in.	2/8½	2/1	1/-

O.G. GUTTERS.

3 in.	2/-	1/9	8½d.
3½ in.	2/1½	1/9	9½d.
4 in.	2/3½	1/9½	10d.
4½ in.	2/4½	2/1½	11d.
5 in.	2/10½	2/5	1/1

RAIN WATER PIPES, &c.

Per yd. in 6 fts.	Pipe.	Bends, stock angles, stock angles.	Branches, Branches,
2 in.	2/7½	1/7½	2/5
2½ in.	2/8½	1/10	2/10
3 in.	3/5	2/3½	3/5
3½ in.	3/11½	2/9	3/11
4 in.	4/7	3/3½	4/10

Less 20 per cent. trade discount.

Tonnage allowance—4-ton lots, 5 per cent. 2-ton lots, 2½ per cent.

L.C.C. COATED SOIL PIPES—London Prices ex Stock,

	Pipe.	Bends, stock angles,	Branches, stock angles
	s. d.	s. d.	s. d.
2 in. per yd. in 6 fts.	3 4	2 3	2 9
2½ in. "	3 9	2 6	3 6
3 in. "	4 2	2 10	4 2
3½ in. "	4 6	3 6	4 9
4 in. "	5 0	3 10	5 7

L.C.C. COATED DRAIN PIPES.—London Prices ex Stock,

	Pipe.	Bends, stock angle,	Branches, stock angles.
	s. d.	s. d.	s. d.
3in. per yd. in 9ft. lengths	4 9	5 4	8 9
cwt. qr. lbs.			
4 in. " 1 1 20.	6 9	6 3	11 0
5 in. " 1 2 22.	8 4	11 0	16 11
6 in. " 2 0 6	10 0	12 10	21 3

Gaskin for jointing 45/- per cwt.

Per ton in London.

IRON—	£ s. d.		£ s. d.
Common Bars	11 15 0	to	12 15 0
Staffordshire Crown Bars—			
Good merchant quality	13 10 0	to	14 10 0
Staffordshire Marked Bars	16 10 0	..	17 10 0
Mild Steel Bars	11 10 0	..	12 10 0
Steel Bars, Ferro-Concrete quality, basis price	12 0 0	..	13 0 0
Hoop iron, basis price	13 0 0	..	14 0 0
" Galvanised	30 0 0	..	31 0 0

* The information given on this page has been specially compiled for THE BUILDER, and is copyright. The aim in this list is to give, as far as possible, the *average* prices of materials, not necessarily the highest or lowest. Quality and quantity obviously affect prices—a fact which should be remembered by those who make use of this information.

PRICES CURRENT OF MATERIALS—(*Contd.*)

IRON— Per ton in London.

	£ s. d.	£ s. d.
Soft Steel Sheets, Black—		
Ordinary sizes, to 20 g.	14 10 0	15 10 0
" " 24 g.	15 10 0	16 10 0
" " 26 g.	16 10 0	17 10 0
Sheets Flat Best Soft Steel, C.B. and C.A. quality—		
Ordinary sizes, 6 ft. by 2 ft. to 3 ft. to 22 g. and 24 g.	18 10 0	17 10 0
Ordinary sizes, 6 ft. by 2 ft. to 3 ft. to 26 g.	18 10 0	19 10 0
No. 1 quality £4 per ton extra.		
Flat and Galvanised Corrugated Sheets—		
Ordinary sizes, 6 ft. to 9 ft. to 20 g.	19 10 0	20 10 0
Ordinary sizes, 6 ft. to 9 ft. to 22 g. and 24 g.	20 10 0	22 0 0
Ordinary sizes, 6 ft. to 9 ft. to 26 g.	21 10 0	23 0 0
Sheets, Galvanised, Flat Best quality—		
Best Soft Steel Sheets, 6 ft. by 2 ft. to 3 ft. to 20 g. and thicker	20 10 0	21 10 0
Best Soft Steel Sheets, 22 g. and 24 g.	21 10 0	22 10 0
Best Soft Steel Sheets, 26 g.	22 0 0	24 0 0
Cut Nails, 3 in. to 6 in.	19 10 0	21 0 0
(Under 3 in. usual trade extras.)		

METAL WINDOWS.—Standard sizes, suitable for complete houses, including all fittings, painting two coats and delivery to job, average price about 1s. 4d. to 1s. 7d. per foot super.

COPPER.

		s. d.
Seamless Copper tubes (basis)	per lb.	1 2
Strong sheet	"	1 3½
Thin	"	1 4½
Copper nails	"	1 3½
Copper wire	"	1 2½

PLUMBERS' BRASS WORK.

Delivered in London.
Stamped by Met. Water Board.

CRUTCH HEAD SCREW DOWN BIB COCKS FOR IRON. EASY CLEAN.
½ in. ¾ in.
32/- 47/- per doz.

CHROMIUM PLATED TOILET SCREW DOWN BIB COCKS FOR IRON. EASY CLEAN.
½ in. ¾ in.
42/- 61/6 per doz.

SCREW DOWN STOP COCKS FOR IRON.
½ in. ¾ in. 1 in. 1¼in. 1½in. 2 in.
27/6 42/6 75/- 181/- 264/- 409/- per doz.

SCREW DOWN STOP COCKS WITH TWO UNIONS FOR LEAD.
½ in. ¾ in. 1 in. 1¼ in. 1½ in. 2 in.
46/6 68/6 106/- 205/- 307/- 590/- per doz.

DOUBLE NUT BOILER SCREWS.
½ in. ¾ in. 1 in. 1¼ in. 1½ in. 2 in.
7/6 10/6 16/- 29/- 39/- 56/- per doz.

HEAVY CROYDON BALL VALVES.
½ in. ¾ in. 1 in. 1¼ in. 1½ in.
36/- 59/6 96/- 205/- 278/- per doz.

CAPS AND SCREWS.
1¼ in. 1½ in. 2 in. 3 in. 3½ in. 4 in.
10/- 12/- 18/6 32/- 44/- 48/- per doz.

BRASS FERRULES OR SLEEVES.
1¼ in. 2 in. 3 in. 3½ in. 4 in.
10/- 12/6 22/6 31/- 45/6 per doz.

DRAWN LEAD TRAPS WITH BRASS CLEANING SCREWS.
1¼ in. 1½in. 2 in. 3 in.
8 lb. Lead P. .24/6 32/6 49/- 72/- per doz.
8 lb. Lead S. .29/6 38/6 59/- 93/- per doz.

SOLDER.—Plumbers' 1/4; Tinmen's, 1/8; Blow-pipe, 1/9 per lb.

PAINTS, &c.

	£ s. d.
Raw Linseed Oil, in pipes per gallon	0 3 3
" " " in barrels "	0 3 5
" " " in drums "	0 3 7
Boiled " " in barrels "	0 3 8
" " " in drums "	0 3 10
Turpentine, in barrels "	0 3 9
" in drums (10 gals.) "	0 3 11
Genuine Ground English White Lead, per ton	56 0 0
(In not less than 5-cwt. casks.)	
Extra for 1-cwt kegs over 5-cwt. casks is 2/9 cwt.	

GENUINE WHITE LEAD PAINT.
"Father Thames," "Nine Elms," "Park," "Supremus," "St. Pauls," "Morganswyte," "Polacco," "J" Brand, and other best brands (in 14-lb. tins) not less than 5-cwt. lots per ton delivered £ 75 s. 0 d. 0

Red Lead, Dry (packages extra) per ton	50 0 0
Best Linseed Oil Putty per cwt.	0 13 0
Size. XD quality fkn.	0 3 6

LEAD, &c.

(Delivered in London.)	Per ton. £ s. d.
LEAD.—Sheet, English, 4 lb. and up	31 5 0
Pipe in coils	30 15 0
Soil pipe	36 0 0
Compo pipe	37 5 0

NOTE.—Country delivery, 20/- per ton extra, lots under 3 cwt. 4/- per cwt. extra and over 3 cwt. and under 5 cwt., 2/6 per cwt. extra. Cut to sizes, 4/- per cwt. extra.

Old lead, ex London area, at Mills per ton £20 0 0

VARNISHES, &c.

		Per gallon.
Oak Varnish	Outside	0 14 0
Fine Do.	Do.	0 16 0
Fine Copal	Do.	0 18 0
Pale Copal	Do.	1 0 0
Pale Opal Carriage	Do.	1 4 0
Best Do.	Do.	1 12 0
Floor Varnish	Inside	0 18 0
Fine Pale Paper	Do.	0 18 0
Fine Copal Cabinet	Do.	1 2 0
Fine Copal Flatting	Do.	1 0 0
Hard Drying Oak	Do.	0 18 0
Fine Hard Drying Oak	Do.	0 19 6
Fine Copal Varnish	Do.	1 0 6
Pale Do.	Do.	1 12 0
Best Do.	Do.	1 2 6
Best Japan Gold Size		1 12 6
Best Black Japan		0 10 0
Oak and Mahogany Stain (water)		0 12 0
Brunswick Black		0 7 6
Berlin Black		0 14 0
Knotting (patent)		0 15 0
French and Brush Polish		0 12 0
Liquid Dryers in Terebene		0 0 0
Cutrass Black Enamel		0 7 0

GLASS.

ENGLISH SHEET GLASS IN CRATES OF STOCK SIZES.

ORDINARY GLAZING QUALITY AND SELECTED GLAZING QUALITY.

per ft. super.		per ft. super
18 oz. O.G.Q.	2½d. 22 oz. O.G.Q.	6d.
18 " S.G.Q.	2½d. 32 " S.G.Q.	6½d.
24 " O.G.Q.	3½d. Obscured Sheet, 15 oz.	3d.
24 " S.G.Q.	3½d. " " 21 "	4½d.
26 " O.G.Q.	3½d. Fluted, 15 oz. 6½d., 21 oz.	9d.
26 " S.G.Q.	4½d. Em'lld 15 oz., 4½d., 21 oz.,	5½d.

Extra price according to size and substance for squares cut from stock.

ENGLISH ROLLED PLATE AND FIGURED CATHEDRAL, ETC., IN CUT SIZES.

	Per ft.
Rolled plate, ¼ in.	5½d.
Rough cast double rolled, ⅛ in.	6½d.
Rough cast double rolled, ¼ in.	6½d.
Figured rolled, etc., white	6½d.
Figured rolled, etc., tinted	9½d.
Rolled Sheet	6d.
White rolled cathedral	6d.
Tinted rolled cathedral	8½d.

Rolled plate is the same price as rough cast double rolled.

	Per ft. s. d.
Reeded, Broad Reeded, Cross Reeded and Chevron Reeded, ¼ in. thick	0 10½
Wire Rolled, ¼ in. thick	0 9½
Wired Cast, ¼ in. thick	0 9½
"Calorex" Sheet, 21 oz.	2 6
" " 32 oz.	4 0
" Cast, ½ in. thick	0 10
" " ⅝ in. thick	1 0
" " ¾ in. thick	1 2

"VITA" GLASS.

Clearsheet—not exceeding 1 foot	1 0
Do. do. 2 feet	1 3
Do. over 2 feet	1 9
Polished plate not exceeding 1 foot	1 6
Do. do. 2 feet	3 0
Cathedral—not exceeding 1 foot	1 0
Do. larger sizes	1 6
Horticultural Sheet and Cathedral "Vita" Glass. Sizes up to 24 inches by 18 inches or not exceeding 3 feet	1 0
3/16 in. Wired Georgian Design. Sizes up to 96 inches long by up to 24 inches wide	2 6

BUILDING TRADE WAGES IN SCOTLAND

Following are grade rates authorised by the Scottish N.J.C. from February 1. Every endeavour is made to ensure accuracy, but we cannot be responsible for errors that may occur.

Grade Classification	A	A¹	A²	A³	B	B¹
Craftsmen	1/7½	1/7	1/6½	1/6	1/5½	1/5
Labourers	1/2½	1/2¼	1/2	1/1½	1/1	1/0½

Aberdeen	A	East Fife (embraced by a line from Largs to Kingsburns and eastward to the Coast)	B
Ayrshire	A	East Lothian	A
Banff	B	Edinburgh	A
Berwickshire	A²	Fifeshire (with the exceptions of towns in East Fife which are under Grade B)	A
Bridge of Allan	A	Forfarshire	A
Broughty Ferry	A	Glasgow	A
Clackmannanshire	A	Greenock	A
Doune	A	Hamilton	A
Dunblane	A	Inverness	*
Dumbartonshire	A	Inverurie	A¹
Dumfriesshire	A	Kincardineshire	A²
Dundee	A	Kinross-shire	A
Dunoon	A	Lanarkshire	A
		Mid-Lothian	A
		Monifieth	A
		Moray and Nairn	B
		Newport	A
		Peeblesshire	A²
		Perth	A
		Perthshire	A
		Peterhead	A
		Renfrewshire	A
		Rothesay	A
		Roxburghshire	A²
		St. Andrews	A
		Selkirkshire	A
		Stewartry	A²
		Stirlingshire	A
		Stornoway	A²
		Tayport	A
		West Lothian	A

*This town has its own rates: Masons, 1/6; Carpenters, 1/6; Slaters, 1/6; Plumbers, 1/6; Plasterers, 1/6; Painters, 1/5; and Labourers, 10d. to 1/-.

The information given in this table is copyright. The rates of wages in England and Wales are given on page 242.

THE SCOTTISH BUILDER

NEW BUILDINGS

The Editor would be glad to receive information for publication under this heading from architects, builders, or other persons concerned. Items should be received at THE BUILDER *Office not later than Wednesday morning.*

ARGYLLSHIRE.—Messrs. Biston, Menzies and Norton, 11, William-street, Greenock, are the architects for a housing scheme for the Forestry Holding of Scotland at Anwaghlachgad, Formturk, West Loch Tarbert.

BAILLIESTON.—SCHOOL.—The Lanarkshire C.C. are to erect a new Catholic school at £40,000. Mr. John Stewart, Albert-street, Motherwell, is the architect. The Council has also decided that the same architect prepare plans for reconstruction and additions to the St. Patrick's Catholic school at Shotts, at £10,500.

BEARSDEN.—CLINIC.—Plans to be prepared for clinic, the architect being Mr. Joseph Weekes, 18, Park-circus, Glasgow.

CHAPELHALL.—HOUSES.—Plans are to be prepared by Mr. P. C. Smith, Lanarkshire County Housing Architect, Hamilton, for 118 houses.

CLYDEBANK.—HALLS.—Plans have been before the Dean of Guild Court for new church halls. The architects are Messrs. Miller and Black, 132, West Regent-street, Glasgow.

DUNDEE.—BUILDINGS.—Plans and sections of the following proposed new buildings, etc., have been lodged at the office of the City Engineer: Fairmuir-street, off—bungalows for the Rockwell Building Co., Ltd.; and 45, Queen-street, Broughty Ferry—alterations for Joseph Walker; architect, Robert D. Stewart, 71, Meadowside.

FALKIRK.—EXTENSIONS.—The Dean of Guild Court has passed plans for an extension to the premises of Messrs. R. A. Main, Ltd., Gothic Iron Works, Camelon, to cost £2,000, and plans submitted by Mr. A. K. Patrick, Bainsford, for two shops with dwelling-house above at Main-street, Bainsford, at £1,400.

GREENOCK.—RECONSTRUCTION.—Plans have been prepared for reconstruction and extensions for Messrs. Thomas Mackay, Ltd., at the West Blackhall-street bakery premises. The architects are Messrs. Stewart, Tough and Alexander, 2, West Blackhall-street.

NEWPORT (FIFE).—HOUSES.—The T.C. are to erect 20 houses of the cottage type, 12 of four apartments and 8 of three apartments. They will be erected at Flass-road, Woodhaven, at £12,000. Mr. N. Stewart, Dundee, is architect.

PAISLEY.—FACTORIES.—Plans have been prepared for a scheme which the Scottish Industrial Estates, Ltd., 141, St. Vincent-street, Glasgow, intend to carry out on sites near Hillington-road, consisting of over a dozen factories and offices in blocks.

Housing of Rural Workers in Scotland.

During the quarter ended June 30 last, increased advantage was taken of the assistance given by local authorities for the reconstruction of dwellings under the Housing (Rural Workers) Acts. 1,441 applications for assistance by way of grant were received by local authorities, compared with 865 in the previous quarter and 1,096 in the same quarter last year. The number of applications approved for assistance rose from 753 in the previous quarter and 872 in the corresponding period last year to 1,168 in the quarter ended June 30 last. In addition there were 35 applications and 36 approvals for assistance by way of loan. At June 30 last, 3,874 dwellings were in course of reconstruction, compared with 3,377 at March 31, and 2,863 at June 30, 1936. During the last quarter 578 reconstructions were completed. Since the Act of 1926 was passed, 23,971 dwellings have been reconstructed with its assistance. Grants amounting to £2,075,703 have been paid and loans to the amount of £26,242 have been advanced

TRADE NEWS

Concrete External Finish.

The Trussed Concrete Steel Co., *Ltd.*, of Horseferry House, Westminster, S.W.1, have issued a brochure describing the exterior finish to "Athenæum Court," Piccadilly, W., which is designed to demonstrate that reinforced concrete can provide an attractive finish as part of the monolithic structure. This building is, we are informed, an example of how the research and laboratory sections of the company are assisting architects to attain distinctive treatments in reinforced concrete. Copies of the brochure may be obtained from the company.

Street Name Changes in Bloomsbury.

In consequence of an order of the London County Council, Broad-street, Bloomsbury, has from July 1 ceased to exist as a separate street, and has been incorporated with High Holborn. One of the firms longest established in the old Broad-street is Messrs. Charles Turner and Son, Ltd., the varnish, paint and enamel manufacturers, who have occupied Nos. 7, 8 and 9 since 1821. It has been a source of pride with this firm that their premises—now renamed 165, High Holborn, W.C.1—have been retained in almost identical external appearance since 1821, and this is seen in a notice of change of address issued by the firm, in which a section of Tallis's drawing for the street, executed in 1839, is reproduced, with a photograph of the building as at present existing.

This form of notice is a unique and delightful method of conveying the news to the firm's many architectural and constructional clients.

PUBLIC WORKS

GREAT BRITAIN.—Among loans sanctioned by the Minister of Health during the week ended July 31 are: Metropolitan Water Board: £1,239,770 for the provision of new buildings and plant at the Hampton Waterworks. Southend-on-Sea County Borough Council: £35,325 for the reconstruction and enlargement of the refuse disposal plant. Stockport County Borough Council: £55,049 for the provision of new plant at their gasworks. Tottenham Town Council: £49,372 for the erection of a senior boys' school at Rowland Hill. Warwickshire County Council: £52,041 for the erection of a public elementary school at Lode-lane, Solihull. Worthing Town Council: £32,190 for purposes of water supply. York City Council: £12,825 for purposes of the York Municipal Aerodrome.

Loans sanctioned during the week ended August 7 include:—East Ham C.B.C.:—£35,729 for public offices, a maternity and child welfare centre and school clinics. Faversham T.C.:—£21,530 for sewerage. Glanford Brigg R.D.C.:—£25,000 for sewerage and sewage disposal for Broughton. Harrow U.D.C.:—£19,290 for the widening of Cannon-lane, Pinner. Ipswich B.C.:—£11,800 for buildings at the Ipswich Municipal Aerodrome. Leeds C.C.:—£15,442 for an omnibus station. Merton and Morden U.D.C.:—£14,550 for a highways depot. Middlesex C.C.:—£57,000 for the improvement of the River Crane at Twickenham. Middlesex C.C.:—£22,927 for alterations to Southall County School. Stretford and District Gas Board:—£126,326 for additional plant at their gas works; and Warwickshire C.C.:—£49,560 for a senior council school at Stratford-on-Avon.

GREAT BRITAIN.—Among contracts advertised in this issue by local authorities as being open to tender are: Huntingdonshire E.C., secondary school, in Brampton-road, Huntingdon; Reading C.B., 108 houses on the Whitley estate; Dorton U.D.C., 32 houses in Higham Cannon-road; Birkenhead T.C., 32 tenements in Ilchester-road.

NOTTINGHAM.—The City Council has been recommended to accept the £265,184 tender of Messrs. W. J. Simms, Sons and Cooke, Ltd., for the extension of Nottingham Guildhall and Police Quarters. The extensions have been planned by the City Engineer, Mr. R. M. Finch.

TENDERS

Communications for insertion under this heading should be addressed to "The Editor," and must reach him not later than Tuesday evening.

* Denotes *accepted*.
† Denotes *provisionally accepted*.
‡ Denotes *recommended for acceptance*.
§ Denotes *accepted subject to modification*.
¶ Denotes *accepted by H.M. Government Departments*.

Aberdeen.—88 dwellings on third section of the Middlefield scheme, for the T.C.:—

Brick—
*William Hardie, Linlithgow £16,050
Joiner—
*MacAndrew and Co., Aberdeen 10,261
Slate and roughcast—
*C. Stewart & Son, Aberdeen 2,655
Plumber—
*William Burnett, Aberdeen 5,662
Lath and plaster—
*J. Goodfellow & Co., Aberdeen 5,849
Grates—
*Herbert J. Baxter, Aberdeen 856
Electric lighting—
*Robert Mair, Aberdeen 506
Painter and glazier—
*Alexander Mackie, Aberdeen 1,208

Ambleside.—Painting exterior of 48 houses in Church-avenue and Corbet-crescent, for the U.D.C.:—

*J. Lowe & Son, Brettle-lane, Stourbridge.

Ardsley.—Rebuilding of licensed premises to be styled "The Malt Shovel" Inn, fronting the main Wakefield-Bradford road, for Messrs. Mappins, Rotherham:—

*Coe & Lorriman.

Axholme.—14 houses at Belton, 10 at Ealand, and 8 at Westwoodside, for the P.C.:—

Belton houses—
*Green & Mackender, Ashby, Scunthorpe £4,240
Westwoodside houses—
*Green and Mackender, Ashby, Scunthorpe 2,244
Ealand houses—
*Kelsey & Sons, Crowle 3,425

Barnard Castle.—Convenience at Staindrop, for the R.D.C.:—

*A. Mudd, Staindrop £362

Barton-on-Humber.—32 houses and construction of road in Ramsden-avenue, for the U.D.C. Mr. C. G. Else, surveyor:—

	Road only. £ s. d.	Houses only. £ s. d.
*Gilding & Hill, Winterton	—	12,402 16 0
*W. H. Fox & Son, Grimsby	643 10 0	—
W. H. Fox & Son, Grimsby	—	13,437 5 4
H. Foster, Barton-on-Humber	668 0 0	13,152 0 0

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SECURE CONTRACTS WITH

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Beeston.—Additional classrooms to Beeston Fields council school, for the Notts E.C.:—

*H. James (Mansfield), Ltd., Station-street, Mansfield £5,229

Birmingham.—New kiln house in Reddings-lane, Tyseley, for the Midland Electrical Manufacturing Co., Ltd. Mr. G. F. Lawley Harrod, architect, 5, St. Phillips-place, Birmingham:—

*G. Webb & Sons, Ltd., Soho-hill, Birmingham.

Birmingham.—Factory in Branston-street, for Messrs. Harrison Bros. Messrs. Gateley & Parsons, architects, 105, Colmore-row:—

*W. J. Whittall & Son, Ltd., 132, Lancaster-street, Birmingham, 4.

Birmingham.—Works, for the T.C.:—

Hot-water and steam heating installation at the new bathing establishment at Kingstanding—
*Norman Turner Engineering Co., Ltd., Glasgow.
Sub-station in Barr-street, Hockley—
*John T. Harris, Ltd., 1, Oakwood-road, Birmingham, 11.
Fitting shop and mess room at the gas pipe depot in Duddeston Mill-road—
*John Bowen & Son, Ltd., Balsall Heath, Birmingham.
Additional buildings and extensions to Little Bromwich Hospital—
*Parsons & Morrin, Belgrave-road, Edgbaston, Birmingham.
Installation of electric light and power in the extensions to the nurses' home and maids' home and other buildings at the City Isolation Hospital, Little Bromwich—
*W. L. Horrobin, Birmingham.

Birmingham.—Erection of the "New Inn" at the corner of Shirley-road and Westley-road, Acocks Green, for Messrs. Ansells Brewery, Ltd., Lichfield-road, Aston, Birmingham:—

*J. E. Harper & Son, Ltd., 76, Lombard-street, Birmingham, 12.

Blackpool.—Works, for the Corporation:—

Shop premises and municipal buildings—
Excavations, basement and foundation work—
*Direct Labour.
Steelwork—*Thomas Walmsley & Son, Ltd., Atlas Forge, Bolton.
Extensions to Claremont junior school—
*H. H. Vickers & Son, Whitegate-drive Saw Mills, Blackpool £4,682 16

Blackwell.—For (1) 28 houses and 12 bungalows in Chesterfield-road, Tibshelf; and (2) 12 houses and 12 bungalows in Westhouses-lane, for the R.D.C. Mr. A. H. Elliott, surveyor, Gilcroft-chambers, Church-lane, Mansfield:—

*C. H. Clarke, Church-street, Eastwood—
(1) £13,334
(2) 7,764

Blyth.—Rebuilding of the Empire Theatre. Mr. E. M. Lawson, architect, Barras-buildings, Newcastle:—

*Coxon & Doherty, Station-station, Blyth.

Bognor Regis.—11 shops, with maisonettes above, in Station-road. Mr. Raymond J. Sargent, architect, 6, Queen-street, W.1:—

*Bailey, Hartley & Watton, Ltd., Bognor Regis.

Bolton.—Branch library at the junction of Newhall-lane and Welbeck-road, Heaton, for the T.C. Mr. W. G. Codling, Borough Surveyor:—

*G. J. Holland & Son (1935), Ltd., 2, Dale-street, Farnworth, near Bolton.

Bournemouth.—Extension to premises in Holdenhurst-road, for Messrs. Kennedy (Bournemouth), Ltd. Messrs. H. E. Hawker & Partners, architects, Westover-mansions, Bournemouth:—

*Jenkins & Sons, Holdenhurst-road, Bournemouth

Bradford.—Demolition of the old Royal Infirmary buildings in Westgate, to make way for a new trolley bus station, for the T.C.:—

*Joseph Standish, Leeds.

Braintree and Bocking.—Maternity wing at the William Julien Courtauld Hospital:—

*A. D. Letch, Braintree.

Brentford.—Painting works at Holly House Flats, Boston Manor-road, and Chiswick fire station and flats, for the Brentford and Chiswick T.C.:—

*Decorative Painting Contractors, Hounslow.

Cannock.—Showrooms and billiards hall on the site of 11 and 13, Market-place, for Messrs. Montague Burton, Ltd., Hudson-road Mills, Leeds, 9. Mr. N. Martin, L.R.I.B.A., architect, Hudson-road Mills, Leeds:—

*W. & A. Foradike, Ltd., St. Mary's-road, Sheffield.

Cardiff.—Stores building at Velindre-road, Whitchurch, for the R.D.C. Electrical Engineer and Manager:—

*J. E. Evans & Son, Cardiff.

Chapel-en-le-Frith.—Pump house, detritus, sedimentation and humus tanks, and laying and jointing sewers, and other works for Dove Holes sewerage and sewage disposal works, for the R.D.C. Messrs. Brady & Partington, civil engineers, Market-street:—

*Z. & W. Wade, Buxton-road, Whaley Bridge £12,081 12 8

Coventry.—Two blocks of offices and six shops at the junction of Hales-street and Trinity-street, for Messrs. Mills & Mills, Ltd., 33, Earl-street. Messrs. C. Redgrave & Son, architects, Barbican-chambers, Earl-street :—

Excavations—*H. W. Truslove, 168, Wainbody-avenue, Coventry.
Foundations—*Piling & Construction Co., Ltd., Temple-bar, London, E.C.4.

Darlington.—Constructional steelwork for a new £50,000 hotel to be erected at Blackwell, for Bellinton Hotel, Ltd. Mr Edwin M. Lawson, architect, Barras-buildings, Barras Bridge, Newcastle-on-Tyne :—

*Lambhill Ironworks, Ltd., Newcastle.

Darlington.—Additions to the Grammar school, for the E.C. Mr. E. Minors, Borough Engineer :—

*L. C. Abdale, 92, High Northgate, Darlington £2,000

Daventry.—Pumping-station, reinforced concrete surface reservoir, and laying 6 miles of water main, for the R.D.C. Messrs. Pick, Everard, Keay & Gimson, consulting engineers, 6, Millstone-lane :—

Builders—*A. Hamson & Son, Ltd., Rose Mount, Brixworth.
Pipes—*Stanton Ironworks Co., Ltd., near Nottingham.
Valves and fittings—*J. Blakeborough & Sons, Ltd., Woodhouse-works, Brighouse.

Deal.—Reconstruction and extension of the drapery and furnishing store, for Messrs. Clarabut, Ltd. Messrs. George Baines & Son, F.R.I.B.A., A.I.Struct.E., architects, 121, Victoria-street, Westminster, S.W.1 :—

*Udalls Building Co., Ltd., 36, Carlton-place, Southampton.
Arcade shop windows—*Courtney Pope & Co., Ltd., Amhurst Park Works, Tottenham, N.15.

Diss.—Painting 40 houses at Mount Pleasant, for the U.D.C. :—

*H. Flatman £105

Doncaster.—Houses for control officer and attendant at the aerodrome, for the T.C. :—

*A. Wortley, 2, Goldsborough-road, Doncaster £1,249

Dungray and Greengairs.—Works in connection with housing scheme, for the Lanarkshire C.C. Mr. Peter C. Smith, County Housing Architect, Hamilton :—

Excavation, brick and mason—
*J. Ritchie & Sons, Cambuslang £12,458 9 2
Joinery, carpentry and ironmongery—
*McQueen & McBean, Bellshill ... 8,511 3 4
Plaster and lathing, etc.—
*W. Bannatyne, Ltd., Hamilton 1,410 17 2

Durham.—Improvements to Houghton Cut on the Durham-Sunderland-road, for the C.C. Mr. W. J. Merrett, County Surveyor, 43, Old Elvet, Durham :—

*Direct Labour £38,000

Glasgow.—Reconstruction and additions in Clarendon-street, for the City Bakeries Headquarters. Mr. John Biggar, architect, St. Vincent-place—

Excavation, brick and mason—*Grays Ferro-Concrete Co., Ltd., Glasgow.

Glasgow.—Alterations and extensions to the premises in Bothwell-street, for Messrs. Osborne, Garrett, Ltd., London. Mr. Andrew Napier, architect, 96, Buccleugh-street :—

Demolition, brick and mason—*W. Lawrie & Co., Glasgow.
Joinery, carpentry and ironmongery — *Colin Hunter, Ltd., Glasgow.

Glasgow.—New Palais-de-Danse at Dennistoun. Messrs. McNair & Elder, architects, St. Vincent-street. Messrs. Gladstone, Brown & Co., measurers, 102, Bath-street :—

Excavation, brick and mason—*A. Mitchell & Son, Ltd.
Joinery, carpentry and ironmongery—*Lawson and Co. (Govan), Ltd., Govan.
Glazing and allied works—*J. McPhee & Co.
Plumber work and sanitary fittings—*McCulloch & Giffen.
Plaster, lathing and cement works—*Holmes & Jackson.
Tile and terrazzo works, etc.—*J. Youdon & Co.

Glasgow.—Works, for the T.C. :—

Shops, etc., in Berryknowes-road—
Excavation, brick and mason—
*H. McDougall £2,196 5 2
Joinery, carpentry and ironmongery—
*J. C. McFarlane 1,684 0 11½
Plumber work, gas fittings, etc.—
*McCulloch & Giffen 289 6 7
Glazing and allied works—
*G. G. Kirk, Ltd. 173 16 4
Painter and allied works, etc.—
*McLeod & Campbell 124 6 6

Works at schools—
Pownhill temporary school—
Excavation, mason, building and joiner work, etc.—
*J. Morrison & Son (Glasgow), Ltd. 2,565 9 5

Several works at Newlands school—
R. Gibbon & Son, Ltd. £2,000 5 5
(All of Glasgow.)

Gloucester.—New accommodation at Standish House for men suffering from pulmonary tuberculosis, for the T.C. :—

*Speckman & Sons, of Swindon, amounting to £23,150, plus £7,281 6s. 9d. for heating and hot and cold water supplies, etc.

Goole.—12 flats on the Mount Pleasant site and eight on the Potter Grange site, for the T.C. :—

*Bainbridge (Builders), Ltd. £5,620

Halesowen.—200 houses at Beecher-road, Cradley, for the T.C. :—

*F. Tildesley, Halesowen £66,250

Hamilton.—Erection of St. Mary's Catholic school, for the Lanarkshire C.C. Mr. John Stewart, architect, Albert-street, Motherwell :—

Slater work—
*McCartney & Reid, Wishaw £1,169 13 8

Havant and Waterlooville.—Golf pavilion at the Hayling Beechlands golf links, for the Council :—

†B. Sharp, Hayling Island £560

Hawkinge.—Extension to the school, for the Kent E.C. Mr. W. H. Robinson, F.R.I.B.A., architect, Springfield, Maidstone :—

*J. J. Clayton & Son, Ltd., Lyminge.

Hemel Hempstead.—Extension to nurses' home at the West Hertfordshire Hospital. Messrs. Paine & Hobday, FF.R.I.B.A., architects, 2, Millbank, S.W.1 :—

*J. Honour & Sons, Ltd., Tring.

Hereford.—Rebuilding premises in Commercial-road, for Messrs. Franklyn, Barnes & Co., Ltd. Messrs. Bettington & Son, architects, 12, Castle-street :—

*T. Howard & Son, Commercial-road, Hereford.

High Wycombe.—Extension of furniture factory in Queen Alexandra-road, for Messrs. Croxton Bros., Ltd. Messrs. Thurlow & Lucas, architects, 25, High-street :—

*G. H. Gibson & Sons, High Wycombe.

Huddersfield.—Rebuilding of the "Woolpack Inn," Deighton. Messrs. Abbey & Hanson, architects, 11, Cloth Hall-street :—

Brickwork—*Stead, Law & Sons.
Joiner—*E. Jenkinson.
Plumber—*H. C. Stringer.
Plasterer—*W. E Jowitt.
Concretor—*J. Cooke & Sons (Huddersfield), Ltd.
(All of Huddersfield.)

Hull.—Alterations at the junior instruction centre for girls, Day-street, for the T.C. :—

F. Singleton & Son, Ltd., Hull ... £290 0 0
*C. R. Barrett & Son, Hull 286 7 2

Hull.—Electric lighting, bell, power and water-heating installation at the Endike-lane school, junior department, for the T.C. :—

C. F. Procter, Hull £274 10 11
*T. A. Garness, Hull 256 17 4

Hull.—Electric wiring installation at the junior instruction centre for boys, Fountain-road, for the T.C. :—

*T. A. Garness, Hull £496 7 4

Huntly.—Housing scheme in Church-street and Princes-street. Mr. Thomas Hudson, architect, 42, Garden-street :—

Excavation, brick and mason — *P. & R. Mitchell.*

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Slater work and roughcasting, etc.—*J. Cown & Son.
Ranges and grates, etc.—*J. Cruickshanks & Sons, Ltd.
Plumber work and sanitary fittings, etc.—*H. M. Gray.
(All of Huntly.)

Hurstpierpoint.—Cubicle block and alterations and additions to existing buildings comprising the Deans Isolation Hospital, including a small sewage treatment works, for the Mid-Sussex Joint Hospital Board. Plans by the Engineer and Surveyor, Cuckfield R.D.C., Haywards Heath :—

*Saunders (Contractors), Ltd., Church-road, Burgess Hill.

Huyton-with-Roby.—Branch library, for the U.D. Mr. Stephen Wilkinson, F.R.I.B.A., County Architect, Preston :—

*W. & A. Gale, Ltd., 151, Linacre-lane, Bootle, Liverpool £4,775

Isleworth.—Demolition of 54-58, South-street, for the Heston and Isleworth T.C. :—

*London Demolition Co., Ltd., London-road, Isleworth.

Lancashire.—Works, for the C.C. :—

(*a*) Alterations, etc., for additional accommodation for maternity wards at the Park hospital, Davyhulme; (*b*) laying composition floors at Green-lane institution, Patricroft; (*c*) alterations to ward doors at the Lake hospital, Ashton-under-Lyne; (*d*) plastering, etc., female wing to the Chorley institution; (*e*) internal decorations of wards at Darnton House, Ashton-under-Lyne—
(*a*) *J. Findlater, Irlam £990 0 0
(*b*) *Terradura Flooring Co., Ltd., Manchester 231 11 6
(*c*) *E. Marshall & Sons, Ltd., Ashton-under-Lyne 279 0 0
(*d*) *Baxendale Bros. (Chorley), Ltd., Chorley 560 0 0
(*e*) *William Taylor & Sons, Ltd., Ashton-under-Lyne 215 10 0

Liverpool.—Dairy at Speke, for the Garston and District Co-operative Society, Ltd., 80, St. Mary's-road, Garston. Architects' Department, Co-operative Wholesale Society, Ltd., Balloon-street, Liverpool :—

*J. Jones & Son (Woolton), Ltd., Hillfoot-road, Woolton, Liverpool.

Liverpool.—Rebuilding Conway Castle Hotel, Tarleton-street, for Messrs. Yates Bros. & Co., Ltd., Southall-street, Manchester. Mr. Gilbert Fraser, F.R.I.B.A., architect, Wellington-buildings :—

*Building Department, Yates Bros. & Co., Ltd., Manchester.

Liverpool.—Alterations, for the Liverpool Palace Ice Rink, Ltd., 3, Prescot-road. Messrs. Willink & Dod, A.R.I.B.A., architects, Cunard-buildings, Pier Head :—

*William Tomkinson & Sons, 7, Great Newton-street, Liverpool.

London.—The following works contracts have been placed by the War Office during the week ended August 12 :—

Bulford, Marlborough-road — provision of concrete culverts—Mears Bros., Ltd. (Contractors), London, S.E.
Gosport—periodical services—Fields, Ltd., Reading.
Shorncliffe, Hythe, Maidstone and Lydd—repairing and tar-spraying roads and parades—W. F. Rees, Ltd., London, S.W.
Dover—repairing and tar-spraying roads and parades—G. Lewis & Sons (Dover), Ltd., Dover.
Royal Arsenal, Woolwich—construction of platforms—J. Carmichael (Contractors), Ltd., London, S.W.
Aldershot—establishments district—re-slating roofs—J. Maguire, London, S.E.
Blackdown — erection of school — H. W. Frisk, Godalming.
Aldershot—periodical services—A. Sharrocks, Rochdale.
Catterick—garages—G. Dougill & Sons, Darlington.
Purfleet—periodical painting—S. Lupton & Sons, London, S.W.
East London—roads and parades—A. E. Bridges & Sons, Waltham Abbey.
Royal Army Medical College block, Millbank—Periodical painting—Decra, Ltd., London, W.

London.—Tenders accepted by H.M.O.W. for the week ended August 12 :—

288, Old-street; Tabernacle Branch Post Office—adaptation—Kilby & Gayford, Ltd., 87, Worship-street, E.C.2.
Admiralty Training Establishment, Rosyth—horizontal boring, etc., machine—H. W. Kearns & Co., Ltd., Broadheath, nr. Manchester.
Occasional chairs, arm and small—Web Harven Furniture Products, 69, Richardson-street, High Wycombe.
Office chairs—H. Hands & Sons, Ltd., Dashwood-avenue, High Wycombe.
Brassfoundry—Essor Manufacturing Co., Ltd., Bishop-street, Birmingham.
Chairs, bow back Windsor—A. H. Taverner, 15, Nelson-parade, Bristol, 3; and G. Haines & Son, Green-street Chair-works, High Wycombe.
Telephone Exchange, Elland, Yorks — erection—Geo. Horsfall & Son, Valley-road, Liversedge.

Parnday-building, Southern Extension—demolition works—Demolition & Construction Co., Ltd., 74, Victoria-street, S.W.1.
Victoria Tower, Houses of Parliament—steel scaffolding—British Steel Piling Co., Ltd., Thameshouse, Millbank, S.W.1.
Hendon Central Post Office—alterations—A. Bedford, Ltd., Regent's-avenue, Palmers Green, N.13.
Post Office, Droyisden—erection—Ogden Bros., 949, Middleton-road, Oldham.
King's Lynn Post Office and Inland Revenue Office—erection of superstructure—R. M. Phillips & Son, Ltd., Estate-yard, Brigg.
Admiralty Training Establishment, Rosyth — universal milling machines — Midgley & Sutcliffe, Hillidge-works, Hunslet, Leeds, 10.
Easy chairs—Waring & Gillow (1932), Ltd., 164/182, Oxford-street, W.1.
Somerset House, Strand—external painting, etc., works—Sykes & Son, Ltd., 10, Essex-street, W.C.2.
Royal Air Force, Coventry—printed linens—Warner & Sons, Ltd., 10, Newgate-street, E.C.1.
Admiralty Training Establishment, Rosyth—emery grinders—Luke & Spencer, Ltd., Broadheath, nr. Manchester.
Kingswood (Bristol) Post Office—extension and temporary garage—Stone & Co. (Bristol), Ltd., Redland-road, Bristol.
Admiralty Training Establishment, Rosyth — horizontal milling machine — Midgley & Sutcliffe, Hillidge-works, Hunslet, Leeds, 10.
Rotherham Employment Exchange—heating and hot-water services—Brightside Foundry & Engineering Co., Ltd., Ecclesfield, Sheffield.
Maidstone Head Post Office—air observation room—H. Godsell, 32, Sandling-road, Maidstone.
Highbury Sub-district Office—alterations and additions — Higgs & Hill, Ltd., 14, Godliman-street, E.C.4.
10, Downing-street—gas-fired heating and hot-water service boilers, etc.—Thomas Potterton (Heating Engineers), Ltd., Cavendish-works, Ravenswood-road, Balham, S.W.12.

London.—List of new contracts placed by H.M. Air Ministry, for the week ended August 14 :—

Bicester—building work—T. H. Kingerlee & Sons, Oxford.
Henlow—building work—John Ray, Ltd., Letchworth.
Terahill and Shawbury—heating installation—Freeman Heating Co., Ltd., London, W.1.
Wittering—building work—F. Perks & Son, Ltd., Long Eaton.
Biggin Hill—land drainage—Raynor Bros., Hucknall.

London.—Demolition work at 57 and 58, Farringdon-street, E.C. for extensions, for the "Evening Standard," Ltd. :—

Builders — *W. & C. French, Ltd., Buckhurst Hill.
Demolition work—*London Demolition Co., Ltd., Isleworth.

London.—Painting works on the Dimont estate and in Old Kent-road, for the L.C.C. :—

*Decorative Painting Contractors, Hounslow.

Long Benton.—New senior school, for the Northumberland E.C. :—

*A. Anderson, Ltd., Stanmore-road, Newcastle £24,740

Middlesex.—Works, for the C.C. :—

Demolition of 3-11 (odd), Grunch End Hill, Hornsey—
*Lea Valley Demolition and Excavation Co. £38

Widening of Sutton-lane, Hounslow, between the Bath-road and the Great West-road—

W. & J. Glossop, Ltd.	£21,837 11 4
W. P. Rees, Ltd.	21,562 2 10
Tarsing (1923), Ltd.	20,865 2 1
Yarra Construction, Ltd.	20,742 5 9
Fitzpatrick & Son	20,710 13 10
Tarmac, Ltd.	20,503 6 4
Kenyon Phillips, Ltd.	20,437 14 7
G. P. Trentham, Ltd.	20,315 13 0
J. Mowlem & Co.	20,202 9 3
A. Robinson	20,147 0 11
H. Farrow, Ltd.	20,120 0 7
Roads and Public Works, Ltd.	20,112 1 11
Lavendor McMillan, Ltd.	20,068 16 5
G. Wimpey & Co., Ltd.	19,950 10 6
Willment Bros.	19,768 13 5
P. Bilton, Ltd.	19,562 4 6
*E. C. MacDermott & Co.	18,890 9 7

Demolition of "The Firs" and "Willowdene," Uxbridge-road, Hayes—
*C. R. Godleman (payment to the C.C.)... £10

Construction of the second carriageway along the North Circular-road between Dog-lane and Neasden-lane, Willesden—

E. C. McDermott, Wembley	£63,225 13 8
W. & C. French, Ltd., Buckhurst Hill	62,501 1 7
Alfred Robinson, Harrow	62,323 6 11
Tarsing (1923), Ltd., South Harrow	62,050 19 6
Mears Bros., Ltd.	61,441 8 8
Highways Construction Co.	61,152 3 6
G. P. Trentham, Ltd.	61,079 1 4
Howard Farrow, Ltd.	61,060 15 6
Fitzpatrick & Son	61,039 18 6
Ewing & Salmond	61,028 18 8
G. J. Anderson	60,938 8 10
Hadephaltic Construction Co.	60,788 0 2
Roads & Public Works, Ltd.	60,470 10 0
Percy Bilton (Roadways), Ltd.	60,380 4 10
W. Griffiths & Co.	60,098 11 6
G. Wimpey & Co., Ltd.	£59,990 11 1
*J. Mowlem & Co., Ltd.	59,790 8 10

Redecoration of exterior to nurses' home at Clare Hall sanatorium—

H. E. Winskell, Barnet	£209 10 10
W. J. Wiggs & Co., Radlett	185 2 6
C. Miskin & Son, Ltd., St. Albans	127 10 0
*S. Worboy & Sons, Potters Bar	119 19 0

Repairs and redecorations to the nurses' home and the greenhouses at the Middlesex Country Hospital—

E. Batten, Ruislip	£276 18 9
A. E. A. Prowting, Ltd., Ruislip	262 17 6
W. J. Page & Son, Northwood	234 0 0
W. S. Try, Uxbridge	229 0 0
*Fassnidge, Son & Norris, Ltd., Uxbridge	224 0 0

Construction of the second carriageway of the Great Cambridge-road from Lordship-lane to the North Circular-road—

Tarsing (1923), Ltd., South Harrow	62,906 3 7
Percy Bilton (Roadways), Ltd.	61,428 12 3
E. Kniffen, Ltd.	60,796 9 2
Highways Construction Co.	60,679 1 8
Fitzpatrick & Sons	60,562 0 0
W. & C. French, Ltd., Buckhurst Hill	60,441 17 1
J. Mowlem & Co., Ltd.	60,261 3 2
G. J. Anderson	59,904 13 11
William Griffiths & Co.	59,730 17 5
G. Wimpey & Co., Ltd.	59,286 10 10
Howard Farrow, Ltd.	59,113 2 6
Roads & Public Works, Ltd.	58,588 16 1
Hadephaltic Construction Co.	58,517 18 0
G. P. Trentham, Ltd.	58,265 16 2
*Alfred Robinson, Harrow	57,576 18 11

Electrical installation in two new blocks at Chase Farm—

C. F. Williams	£1,525 0 0
Colston Electrical Co., Ltd.	1,524 16 2
G. A. Weston	1,143 2 10
Central Electric Co.	1,142 13 8
F. H. Wheeler & Co., Ltd.	1,126 16 0
E. Wright & Co.	1,112 14 0
Johnson & Tanner, Ltd.	1,092 0 0
*Middlesex Electrical Co., Ltd.	1,073 0 0

Heating, hot-water and gas installations, in the same building—

Fretwell Heating Co., Ltd.	£3,590 0 0
Comyn Ching & Co. (London), Ltd.	3,206 10 0
*Maddock & Wright	3,117 0 0

Adaptation of visitors' waiting-room to provide additional accommodation, at the West Middlesex County hospital—

J. Woollard & Sons, Ltd.	£456
W. Lacey, Hounslow	453
W. J. Dickens	449
G. Holland & Sons	448
†W. S. Try, Uxbridge	442
E. Plaistowe & Sons, Ltd., Southall	429

Head dispensary at Redhill County hospital—

Thomas Bros., Wembley	£4,965 13 10
A. Robinson, Harrow	4,639 2 3
E. D. Winn & Co., Ltd.	4,562 0 0
Richard Ginn & Son, Hertford	4,499 0 0
Davis Contractors, Ltd.	4,367 0 0
*Henry Boniface, Ltd., Weybridge	4,206 4 0

Forage store at Harefield sanatorium—

E. D. Winn & Co., Ltd.	£205
Y. J. Lovell & Sons, Ltd.	205
Fassnidge, Son & Norris	179
*W. S. Try	179

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Staff House at Porters Park Golf Club, Shenley—

McManus & Co., Ltd., Whetstone	£1,755
A. J. Hooper & Sons (Finchley), Ltd.	1,782
John Laing & Son, Ltd., Mill Hill	1,719
Lees of Enfield, Ltd.	1,625
*W. J. Wiggs & Co., Radlett	1,549

Accommodation for 20 nurses and 2 sisters at Springfield mental hospital—

Lees of Enfield	£7,410 0 0
Y. J. Lovell & Son, Gerrards Cross	7,272 0 0
A. O. Laird, Ltd.	7,259 0 0
J. Crowdson, Horley	7,201 0 0
Sloggetts, Ltd., Hampton Hill	7,106 0 0
Davis (Contractors), Ltd.	7,013 0 0
M. J. Gleeson, Ltd., North Cheam	6,991 0 0
Frank H. Ayling, Ltd.	6,987 0 0
*Walker (Tooting), Ltd.	6,797 18 0

Repairs to 19 cottages along the Bath-road—

W. J. Portsmouth, Harlington	£306 19 6
A. C. Keen, Hounslow	302 12 0
W. H. White, Cranford	266 11 9
A. L. Russell, Hayes	259 11 4
A. Morris, Staines	251 17 6
*W. S. Try, Uxbridge	249 11 0

Installation of lifts in the extensions to Hillingdon County hospital—

The Express Lift Co., Ltd., S.W.1	£2,554 0 0
Evans Lifts, Ltd., Leicester	2,510 0 0
Wm. Wadsworth & Sons, Ltd., Bolton	2,302 0 0
Pickerings, Ltd., Stockton-on-Tees	2,193 5 3
H. Breakell & Co., Blackburn	2,070 0 0
*Marryat & Scott, Ltd., E.C.1	2,039 0 0

New buildings in Ridgeway-road, Isleworth, for the County school for boys—

H. Taylor & Son (Epsom),, Ltd., Epsom	£61,742 0 0
Thomas, Evan, & Sons	59,161 16 10
James (Builders), Ltd., Slough	57,822 0 0
Wm. Moss & Sons, Ltd.	56,826 6 8
Parker Construction Co., Ltd.	56,282 9 5
Speirs, Ltd.	56,211 0 0
Anglo-Scottish Construction Co., Ltd.	55,166 0 0
Thorogood & Sons, Surbiton	54,894 0 0
Sloggetts, Ltd., Hampton Hill	54,825 15 2
Tarran Industries, Ltd.	54,817 9 0
Raglan Building Co., Ltd., Wembley Park	54,750 0 0
M. J. Gleeson, Ltd., North Cheam	54,717 9 0
*Stewart & Co., Twickenham	54,231 3 0

Provision of an enclosed yard, a garage for eight ambulances, office and lavatories, workshops, accommodation for water-softening plant, and an enclosure for ashes, swill, etc., at Redhill County hospital—

Thomas Bros., Wembley	£13,078 1 3
E. R. Terry, Ltd., Greenford	8,766 4 6
Buckingham & Sons, Ltd.	8,612 18 4
Payne Bros., Watford	8,200 0 0
A. Robinson, Harrow	7,927 7 1
G. Holland & Sons	7,483 14 8
*The Raglan Building Co., Ltd., Wembley Park	7,243 0 0

Installation of bed lifts at Chase Farm—

Express Lift Co., Ltd.	£3,800
William Wadsworth & Sons, Ltd.	3,172
Pickerings, Ltd.	3,069
‡Evans Lifts, Ltd.	2,950
Marryat & Scott, Ltd.	2,936
H. Breakell & Co.	2,208

Extension of the existing sanitary arrangements, and the repair and redecoration of the cricket pavilion on the Shenley mental hospital estate—

C. Miskin & Sons, St. Albans	£790
John Laing & Son, Ltd., Mill Hill	755
S. Worboys & Sons, Potters Bar	607
H. E. Winskell, Barnet	539
E. Osmond, Shenley	535
*W. J. Wiggs & Co., Radlett	499

Alterations to the domestic hot-water installation at Enfield House—

Heath & Co., Ltd.	£780
A. B. Cooper	710
Edward Deane & Beal, Ltd.	687
Wm. Freer, Ltd.	685
The Brightside Foundry & Engineering Co., Ltd.	649
*Comyn Ching & Co. (London), Ltd.	639

Heating and hot-water installation work in connection with the enlargement of the Priestmead Council school, Harrow Weald—

Clark, Wyatt & Co., Ltd.	£977 10
*Edward Deane & Beal, Ltd., 3, Monument-street, E.C.3	972 0

Painting works at Oak Farm schools—
*Decorative Painting Contractors, Hounslow.

Middleton.—External painting of the Grammar school :—
*Heywood Jackson & Jessop, 3, Rectory-street, Middleton £130

Middleton.—Works, for the T.C. :—
Painting schools : (a) Elm-street council school; (b) parish; and (c) St. Gabriel's—

(a) *Heywood Jackson & Jessop, Middleton	£222 0
(b) *W. Walton (Pendleton), Ltd., Pendleton, Salford	239 10
(c) *J. Gibbons & Sons, Ltd., Manchester	161 0

(a) Heating, and (b) electric light installation in the new baths—

(a) *Saunders & Taylor, Ltd., Trafford Park, Manchester	£2,883 10
(b) *T. Porter & Co., Salford	2,220 0

Morecambe and Heysham.—Engine house, hose tower, firemen's dwellings, etc., in Clark-street and Townley-street, for the T.C. Mr. R. B. Savage, Borough Engineer:—

*Edmondson Bros. (Morecambe), Ltd., Main-street, Morecambe £15,250

Morley.—32 houses on the Clough-street estate, for the T.C. Mr. F. Turner, B.Sc., A.M.I.C.E., Borough Engineer:—

Brickwork—
*H. Barraclough & Sons £4,846
Joiner—
*C. Chew 2,597
Plumber—
*F. Hargreaves & Son, Churwell 1,296
Plasterer—
*W. J. H. Crowther 1,106
Tiler—
*Firth Bros. 646
Painter—
*H. Garrett 201
Electrician—
*L. Bedford, Dalton, Huddersfield 140
(Remainder of Morley.

Near Battle.—Alterations and additions at "Oaklands," Sedlescombe, nr. Battle, Hastings, for Captain Coombe. Messrs. Verity & Beverley, architects, 32, Old Burlington-street, W.1:—

*Lincoln Dark & Co., Ltd., London, S.E.9.

Newcastle-on-Tyne.—Alterations to the Bible and Tract Depot in Pilgrim-street. Messrs. J. Walton Taylor & Son, architects, Union-buildings, St. John-street, Newcastle:—

*F. J. Hepple, Dunn-street, Newcastle-on-Tyne.

Newport (I.O.W.).—Five pairs of houses at Camp-road, Freshwater, for the R.D.C.:—

*F. H. Jolliffe £3,566 12

Newton.—Reconstruction and additions to the primary school, for the Lanarkshire C.C. Mr. John Stewart, architect, Albert-street, Motherwell:—

Excavation, brick and mason—
*Fraser & Anderson, Hamilton £743 18
Joinery, carpentry and ironmongery—
*J. C. Dunn & Sons, Cambuslang 840 0
Plumber work and gasfitting, etc.—
*McCulloch & Giffen, Glasgow 578 0
Plaster and concrete floors—
*Baxter & Gillow, Motherwell 215 13

Northampton.—Printing works in Redford-road, for Messrs. Creative Printers, Ltd., Tintern House, 74, Church-street, Birmingham. Sir John Brown & Mr. A. E. Henson, FF.R.I.B.A., architects, 83, St. Giles-street:—

*Norman D. Bell, Houghton-road, Northampton.

Northampton.—Erection of White Hills Hotel, Boughton, for the Northampton Brewery Co., Ltd., Bridge-street, Northampton. Plans by Mr. H. P. Passmore, staff architect, Brewery Offices:—

*F. A. Hedges, Syresham, Brackley, Northants.

Oldbury.—68 houses on the Holt Farm estate, for the U.D.C. Mr. W. Greenwood, surveyor:—

*Direct Labour £29,566

Perth.—Nurses home, for the Governor of the James Morrison Royal Asylum. Messrs. Smart, Stewart & Mitchell, architects, Tay-street:—

Excavation, brick and mason—*E. McKearney.
Steel construction — *Redpath, Brown & Co., Ltd., Glasgow.
Reinforced concrete—*J. Buchan & Son.
Joinery, carpentry and ironmongery—*Soutar & McQueen.
Glazier and allied works—*P. & G. McLeod, Ltd.
Domestic hot and cold water supply—*G. N. Haden & Son, Ltd., Glasgow.
Plumber work and sanitary fittings, etc.—*Moffat & Garscadden.
Asphalt work and roofing, etc.—*The Scottish Speedwell Co., Ltd., Glasgow.
Plaster work and lathing, etc.—*J. Buchan & Son.
Electrical fittings and installation, etc. — *J. Scott & Co.
Heating engineering and installation—*G. N. Haden & Son, Ltd., Glasgow.
External plaster work, cement, etc.—*J. Sharp & Son.
(Remainder of Perth.)

Poplar.—Works for the B.C.:—

Hollow-tile flooring at the maternity and child welfare centre, Old Ford—
*Diespeker & Co. £1,187 14 11
Concrete piling at the Glengall-road housing site—
*West Rotinoff Piling and Construction Co. £4,096 0 0

Portsmouth.—24 flats at St. George's-square, Portsea, for the T.C. Mr. Adrien J. Sharp, L.R.I.B.A., City Architect:—

John Lay & Co., Ltd., Portsmouth	£18,127 0
E. & A. Sprigings, Southsea	15,836 0
John Hunt, Ltd., Gosport	14,246 0
Samuel Saker, Ltd., Southsea	14,199 0
Tanner Bros., Ltd., Southsea	13,605 0
*Portsmouth, Gosport and District Builders' Guild, Ltd., 48 and 50, George-street, Portsmouth	12,846 10

Putney.—Demolition work at "Chilston," Kersfield-road, for Mr. Granville-Ellis:—

*London Demolition Co., Ltd., London-road, Isleworth.

Rawtenstall.—Demolition of the Palace Theatre, for the T.C.:—

*Henry Trickett & Sons, Ltd., Turton Hollow, Crawshawbooth, near Rawtenstall.

Redcar.—Conversion of premises in Coatham-road into library, for the T.C.:—

*G. T. Howd, Middlesbrough £1,249

Redditch.—14 houses in Kingsley-avenue, for the U.D.C. Mr. L. O. Wilkes, surveyor:—

*E. L. Lewes, Ltd., Evesham-street, Redditch £4,946

Rotherham.—Petrol filling station and garage in Herringthorpe Valley-road, for Mr. W. S. Oxley, Doncaster-road. Messrs. Husband & Clark, civil engineers, 388, Glossop-road, Sheffield:—

*A. Cooper & Son, Ltd., Chesterford, Greasborough, Rotherham.

Sale.—Motor garage and petrol filling station in Cross-street, near Dane-road, for Messrs. T. Maiden Garages, Ltd., George-street Garage, Manchester. Mr. J. Paley Parrish, architect, "Woodgarth," Broad-road:—

*T. Maiden & Son, Ltd., Lime Kiln-lane, Manchester.

Selkirk.—72 houses at Thornfield, for the T.C. Mr. T. Beattie, F.I.A.A., architect and surveyor, Municipal-buildings. Bills of quantities by Messrs. Whytock & Wallace, 21, Allos-street, Edinburgh:—

Builder, excavator and brickwork—*Ingles & Dickson.
Carpenter and joiner—*William Hogg.
Slater—*John Smith.
Plasterers—*A. Clapperton & Son.
Plumber—*Grierson & Taylor.
Painter—*Robertson & Son.
Roads, concrete (R.I.C.), sewers and excavation retaining walls, etc.—
*John Smith £4,525 0 0
Water mains, 3-in. bitumen-lined steel pipes—
*Wm. Henderson 219 12 4
(Remainder of Selkirk.)

Sheffield.—New Department of Glass Technology, in Northumberland-road, for the Senate of the University of Sheffield. Mr. H. B. Leighton, F.R.I.B.A., architect, 68, Upper Albert-road, Meersbrook:—

*T. Wilkinson & Sons, Ltd., Midhill-road, Sheffield.

Sheffield.—New works in Saxon-road, for Messrs. S. & J. Kitchen, Ltd., Soho Works, Summerfield-street. Messrs. Fenton & Robinson, F. and A.R.I.B.A., architects, Paradise-square:—

*A. Bradbury & Sons, Cemetery-road, Sheffield.

Sheffield.—Steel warehouse in Penistone-road, for Messrs. Easterbrook Allcard & Co., Ltd., Presto Works:—

*James White & Son, Burton-street, Owlerton, Sheffield.

Sheffield.—Additional works in Guernsey-road, for the Heeley Silver Rolling Mills, Ltd., Guernsey-road. Mr. H. Webster, architect, St. Marie's-chambers, Norfolk-row:—

*W. Marlow & Sons, Ltd., Holme-lane, Owlerton, Sheffield.
Steelwork—*Chas. Ross, Ltd., Sheffield, 2.

Sidmouth.—Hotel, garage, etc., at Lower Woolcombe, for Messrs. Valliance & Co., brewers. Mr. Robert W. Sampson, L.R.I.B.A., architect, Fortfield-chambers:—

*R. W. & J. Sinner, Station-road, Sidmouth.

Smethwick.—152 houses on the Perry Hill estate, for the T.C. Mr. R. Fletcher, M.I.C.E., Borough Engineer:—

*Housing Ltd., Blackheath, Birmingham £57,425

South Shields.—196 houses and four shops, for the T.C. Mr. J. Reid, Borough Engineer:—

*W. D. Allison, Whitburn.

Southport.—Public conveniences at Meols Cop Bridge and St. Luke's Bridge, for the T.C.:—
Meols Cop Bridge—
*B. R. Hunt & Sons, 127a, Bispham-road, Southport £535
St. Luke's Bridge—
*Duxfield Bros. (Southport), Ltd., 66a, Virginia-street, Southport ... £365 4 3

Sowerby Bridge.—30 houses and 20 bungalows (Contract No. 13) on the Beechwood housing site, Sowerby, for the U.D.C. Mr. J. Normanton, surveyor:—

Bricklayers and mason — *Pickles Bros. (Builders), Ltd., Halifax.
Carpenter and joiner—*H. H. Brook, Sowerby Bridge.
Plumber and glazier—*J. Holdsworth, Halifax.
Slater—*H. Castle & Son, Ltd., Brighouse.
Plasterer—*S. Parker, Gt. Horton.
Painter and decorator—*C. Thorpe, Sowerby Bridge.
(Estimated cost, £17,901.)

Stafford.—Painting and repairing of Hawbush Council school, for the Staffordshire E.C.:—

*Vale & Attwood, 50, Dudley-road, Brierley Hill £580

Standish.—Pithead baths at Victoria Colliery, for the Miners' Welfare Committee, Romney House, Marsham-street, Westminster, S.W.1. Mr. J. H. Forshaw, Chief Architect:—

*J. Johnson & Son, Caroline-street, Wigan.

Stepney.—Demolition of houses at 5, 7, 20 and 26, Mountfield-street, E.1:—

*London Demolition Co., London-road, Isleworth.

Stockport.—Maternity wards at Stepping-hill hospital, for the Health Committee. Messrs. H. S. Fairhurst & Son, F. and A.R.I.B.A., architects, 55, Brown-street, Manchester:—

*Hibbert & Penn, Stockport £36,000 0 0
Heating—
*G. N. Haden & Son, Manchester 6,789 0 0
Electrical work—
*A. E. Sudlow & Co., Manchester 3,368 12 6

Stockton-on-Tees.—Extensions to dormitory block at the Isolation Hospital in Durham-road, for the T.C. Mr. J. P. Wakeford, M.Inst.C.E., Borough Engineer and Surveyor:—

T. C. Oxley	£1,861 7 9
Geo. L. Fordy & Son, Ltd.	1,856 4 10
*Wm. Cowan & Son, Ltd.	1,815 3 6
T. Pearson, Middlesbrough	1,700 0 0
(Remainder of Stockton.)	

Stoke Newington.—Works for the B.C.:—
Redecoration of the library hall, etc.:—
*J. Cannon & Son £346 14 6
Interior redecoration of Ormond House—
*T. W. Rhodes £469 5 11

Stretford.—Exterior painting and renovating of houses, for the T.C.:—

*W. Whiteside, 44, Church-road, Urmston—
47 in Seymour-grove £135 0 0
18 in Seymour-grove 52 15 0
*J. H. Potter, 35, Sunningdale-road, Urmston—
45 in Seymour-grove 131 17 6
A. Reeves, 35, Trafford-road, Salford—
37 in Seymour-grove 114 0 0
*W. M. Costin, 37, Portland-road, Gorse Hill—
49 in Seymour-grove 159 6 0

Sunderland.—Garage in Monk-street, for Messrs. Youngs Motors, Ltd. Mr. G. E. Matkin, architect, Barclays-chambers, Fawcett-street:—

*J. Huntley & Sons, Marion-street, Sunderland.

Sunderland.—Offices, etc., in Thomas-street, for the Sunderland Engineering Equipment Co., Ltd. Messrs. W. & T. R. Milburn, architects, 17, Fawcett-street, Sunderland:—

*Mark Bros., Hopper-street, Sunderland.

Thorneliebank.—250 houses in the Nitsdale district. Mr. Norman McFadyen, architect, 42, Birland-road, Bearsden:—

Excavation, brick and mason—*J. Lawrence & Co., Ltd., Glasgow.
Plumber work and sanitary fittings, etc.—*J. Y. Symington & Co., Glasgow.
Slater work and roughcasting, etc. — *A. C. Whyte & Co., Ltd., Glasgow.
Painter and allied works—*J. Chisholm & Son, Glasgow.
Joinery, carpentry and ironmongery — *Lawrence & Co. (Glasgow), Ltd., Glasgow.
Electrical fittings and installation — *K. McAlpine & Co., Glasgow.
Plaster work and lathing, etc.—*A. McKellar & Co., Glasgow.
Iron railings and gates, etc. — *P. & R. Fleming & Co., Ltd., Glasgow.

Thornton.—For (*a*) branch library, and (*b*) lecture hall at Thornton, near Blackpool, for the Lancashire E.C. Mr. Stephen Wilkinson, F.R.I.B.A., County Architect, Preston:—

*G. & H. H. Whitehead & Co., Ltd., 2, Lawson-road, Marton, Blackpool—
(*a*) £6,173 10
(*b*) 7,036 9

Tiverton.—Five-story factory and warehouse, for Messrs. J. Heathcoat & Co., lace manufacturers. Mr. Henry S. W. Stone, F.R.I.B.A., architect, Lloyds Bank-chambers, Taunton:—

*William Cowlin & Son, Ltd., Stratton-street, Bristol.

Tiverton.—Rebuilding "Hare and Hounds" public house in Chapel-street for Messrs. Starkey, Knight & Ford, Ltd., brewers, Fore-street. Mr. G. C. Physick, brewery architect:—

*Bamsey, Marshall & Co., St. Peter-street, Tiverton.

Urmston.—Widening and reconstruction of Ashburton-road, Trafford Park, for the U.D.C.:—

*Wilson & Wilkinson, 42, Spring-gardens, Manchester £25,000

Walsall.—Reconstruction of premises in Wisemoor, for Mr. J. B. Homer, Cradley Heath:—

*E. J. Martin, Bolts-road, Walsall.

Walsall.—Offices and shops in Park-street, for Messrs. Marsh & Baxter, Ltd., Hall-street, Brierley Hill. Messrs. Ewen Harper Bros. & Co., architects, 19, Corporation-street, Birmingham:—

*T. W. Edwards & Sons, Audnam, Stourbridge.

Walkergate.—Offices and garage, etc., at the works of Messrs. Donkin & Co. Mr. W. Riddle, architect, 53, Denham-terrace, Wallsend:—
*H. Waller, Back Waller-street, Newcastle £3,500

Wallsend.—Extensions, including maternity block and X-ray department, at the infirmary. Mr. W. Stockdale, architect, Howard-street, North Shields:—
†James Carruthers, Percy-square, Tynemouth ..... (about) £13,000

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Walthamstow.—Works at schools, for the R.C.:—

Wood block flooring—
*J. Sands, Ltd.—
Blackhorse-road schools £32 7 6
Coppermill-road senior boys' 61 1 11
Gamuel-road junior (maintenance 79 15 8
Gamuel-road Boys' (new floors)... 120 10 0
Maynard-road junior 22 8 10

Heating—
*E. Deane & Beal, Ltd.—
Joseph Barrett senior 224 10 0

Ware.—66 houses, for the R.D.C.:—
*Wray, Ltd., Hertford £22,638

Wateringbury.—Rebuilding of the "King's Head" public house, for Messrs. Frederick Leney & Co., Ltd., brewers. Messrs. Seymer, Orman & Adie, architects, 21, Sackville-street, W.1:—
*R. Holford & Co., Ltd., Walnut Tree-close, Guildford

West Hartlepool.—Tuberculosis block at the isolation hospital, for the T.C. Mr. F. Durkin, Borough Engineer:—
*J. Proud, Ltd., 195, York-road, West Hartlepool.

West Hartlepool.—Garage and warehouse in Hartroad, for Messrs. R. Stobbs & Son:—
*W. Pearson & Son, Stranton, West Hartlepool.

Westminster.—Works for the City Council:—
Exterior and partial interior decorations to St. Martin's-street library—
Haywood Bros. £262 15 6
John Garlick (1910), Ltd. 213 15 2
Townsends (Builders), Ltd. 176 10 0
Fredk. Cope & Co., Ltd. 176 0 0
Sims & Russell 166 0 0
*Walter Lilly & Co. 163 0 0
Repairs and decorations at the Disinfecting Station, Grosvenor-road—
Hutchings & Keasley, Ltd. £585 0 0
Walter Lilly & Co. 492 0 0
John Garlick (1910), Ltd 489 12 0
Townsends (Builders), Ltd. 485 0 0
Fredk. Cope & Co., Ltd. 477 4 0
*Sims & Russell 459 0 0
Decorations at the Ebury Bridge maternity and child welfare centre and tuberculosis dispensary—
Sims & Russell £293 10 0
Fred. Cope & Co., Ltd. 291 14 6
Walter Lilly & Co. 275 0 0
F. C. Hoskins & Co., Ltd. 266 17 7
*Townsends (Builders), Ltd., submitted £243 6s. 6d. (corrected) 242 19 0
Works of decoration and repair at the following housing estates:—
Grosvenor housing estate, decorations and repairs—
*Fredk. Cope & Co., Ltd. £436 0 0
Admiral House, redecorating common bathroom (including tiling the walls) and general exterior repairs—
*John Garlick (1910), Ltd. £186 19 0
Interior reconstruction of the conveniences at Parliament-street by Parliament-square—
*Townsends (Builders), Ltd. ... £7,257 18 0
Works to certain party walls at the Council premises in Saville-row and Saville-place—
Walter Lilly & Co. £837 13 0
F. Cope & Co., Ltd. 790 17 9
Sims & Russell 742 0 0
E. D. Winn & Co., Ltd. 680 0 0
Townsends (Builders), Ltd. 606 0 0
*John Garlick (1910), Ltd. 564 19 6

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Decorations and repairs at 1, Bedfordbury—
Haywood Brothers £268 16 0
Townsends (Builders), Ltd. 217 13 0
W. Lilly & Co. 198 0 0
*Hutchings & Keasley, Ltd. 186 2 0
Renovation of the flat at Monck-street depot, which is to be occupied by the caretaker of the Air Raid Precautions Centre—
Markham & Markham £217 0 0
Townsends (Builders), Ltd. 149 0 0
W. Lilly & Co. 146 0 0
*Hutchings & Keasley, Ltd. 137 3 0

Westminster.—Block of offices at the corner of Grosvenor-place, Hobart-place and Wilton-street, S.W.1. Messrs. Howard & Souster, architects, 3, St. James's-street, S.W.1.
General contractors—*Harry Neal, Ltd.
Steelwork—*Redpath, Brown, Ltd.
Fireproof floors.—*Attoc Blocks, Ltd.
Portland stone—*F. J. Barnes, Ltd.
Heating—*Benham & Sons.
Plumbing—*Matthew Hall & Co.
Artificial cills and copings—*Girlings Ferroconcrete Co., Ltd.
Sanitary fittings—*J. Bolding & Sons, Ltd.,

Whitby.—For (*a*) eight houses at Grosmont, and (*b*) six at Goathland:—
(*a*)*William Cornforth (Whitby), Ltd. £3,332 1 7
(*b*)*William Cornforth (Whitby), Ltd. 2,282 0 0

Whitley Bay.—Alterations and additions to the Whitley and Monkseaton High School, for the Northumberland E.C. Mr. W. W. Tasker, County Architect, Newcastle:—
*Middlemiss Bros., Stephney Bank, Newcastle £15,400

Whitworth.—Shelter and public conveniences, for the U.D.C. Mr. G. V. Law, surveyor:—
*E. Harrison, 423, Market-street, Whitworth, near Rochdale £630

Wimbledon.—Sub-station in Arthur-road, for the T.C. Mr. A. A. McKenzie, engineer, Electricity House, Durnsford-road, S.W.19:—
*Alexander Thomson & Co. (London), Ltd., 22-23, Sekforde-street, E.C.1.

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